

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



A292.9

SA

So3wa

C.2



United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Salt Lake City  
Utah



# WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department  
of Natural Resources

OFFICE OF THE STATE ENGINEER  
COLUMBIA COUNTY RECORDS

2-1983



February 1, 1983



## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTIAN, NEAR THE WEST FORK OF HYALITE CREEK, IN MONTANA.*

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

# FOR UTAH

## FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

**SOIL CONSERVATION SERVICE  
WASHINGTON, D.C.**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
SALT LAKE CITY, UTAH

## Division of Water Resources

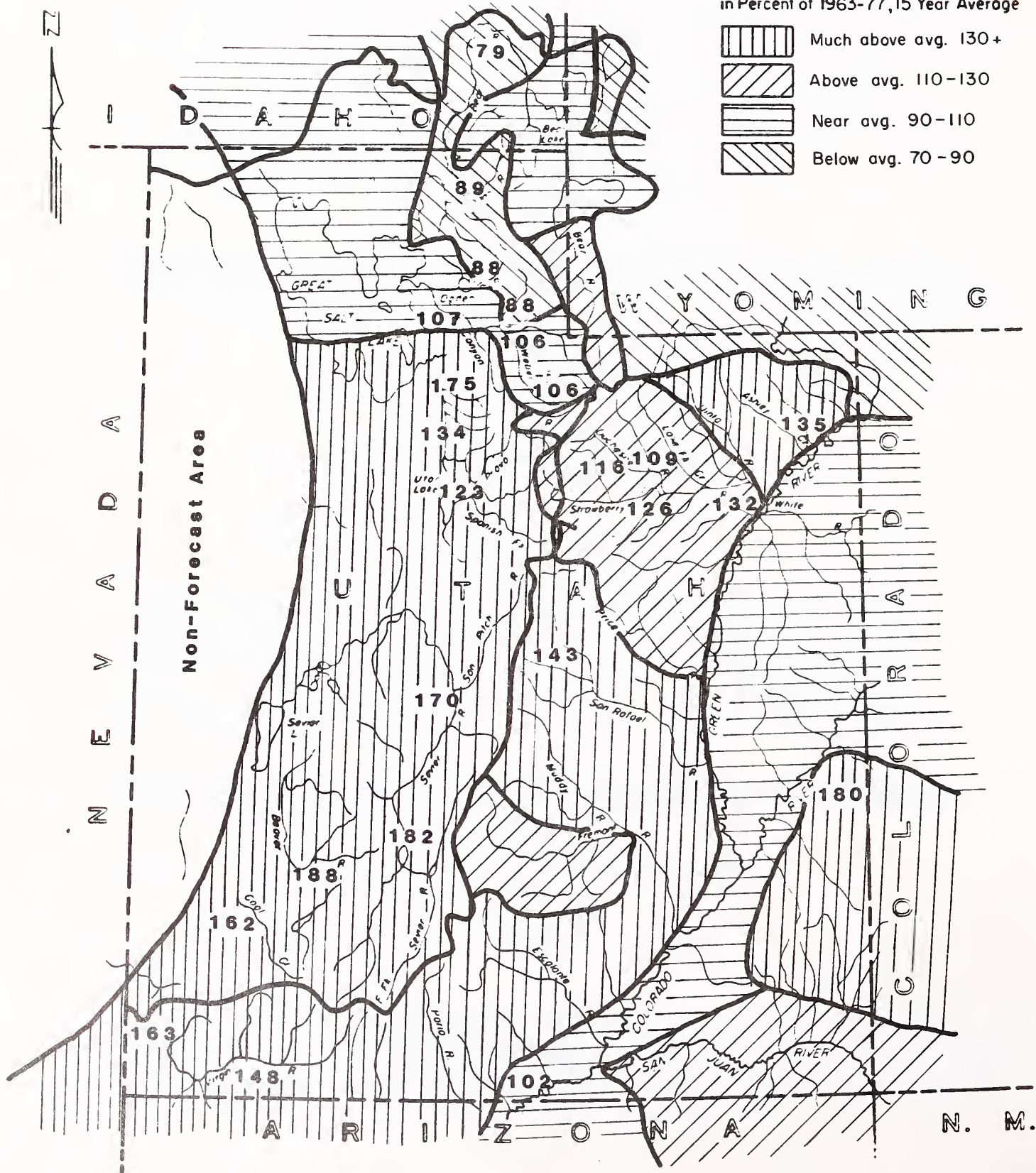
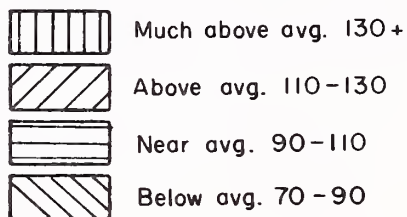


**Salt Lake City, Utah 84147**



## Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

Approximate Date



As Of February 1, 1983

\* \* \* \* \*  
\* Utah's 1983 water supply outlook ranges from below \*  
\* average for the extreme northern part of the state and \*  
\* north slope of the Uintas to well above average for the \*  
\* central and southwestern part of the state. Basin snow \*  
\* water content precentages range from below average on \*  
\* the Bear to almost twice average on the Virgin. Soil \*  
\* moisture and reservoir storage are well above average. \*  
\* Streamflow forecasts range from 70% of average for the \*  
\* Little Bear to 324% of average for Minersville Reservoir\*  
\* Inflow. \*  
\* \* \* \* \*

#### SNOW COVER

Snow measurements taken the last week of January range from 84% of average on the Bear to 199% on the Virgin River drainage. The Bear River is 77% on the Upper Bear and 87% on the Lower Bear. Ogden River is 101% of the February 1 average, the Weber 94%, Provo-Utah Lake 110%, Duchesne River 131%, Price River 104%, San Rafael 134%, Muddy 143%, Fremont 147%, Upper Sevier 178%, Lower Sevier 131%, Beaver 159%, and Coal Creek 190%.

#### PRECIPITATION

Precipitation at mountain stations during the October-January period ranges from below average in northern Utah to well above in central and southern Utah.

#### SOIL MOISTURE

Watershed soils were well primed by fall rains prior to snow accumulation. Wetter than average soils are expected to produce good runoff when snowmelt begins.

#### RESERVOIR STORAGE

Storage in 26 of Utah's key reservoirs is 132% of the February 1, 15 year average and 89% of useable capacity with many reservoirs releasing or holding reservoir storage down in order to make room for spring runoff.

Utah Lake is 1.68 feet above compromise and 2.66 feet above last February 1. Great Salt Lake is 4,202.1 feet above mean sea level for a rise of 0.45 feet during January. Great Salt Lake is now expected to peak at 4,303 feet above mean sea level. Utah Lake is expected to peak at 2.5 feet above compromise.

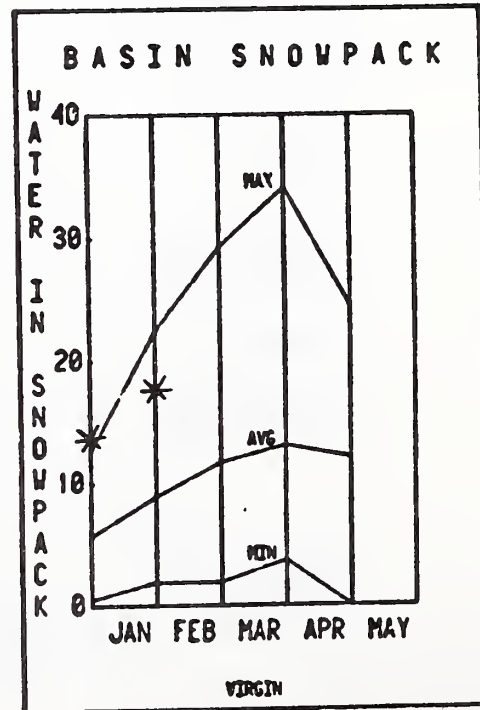
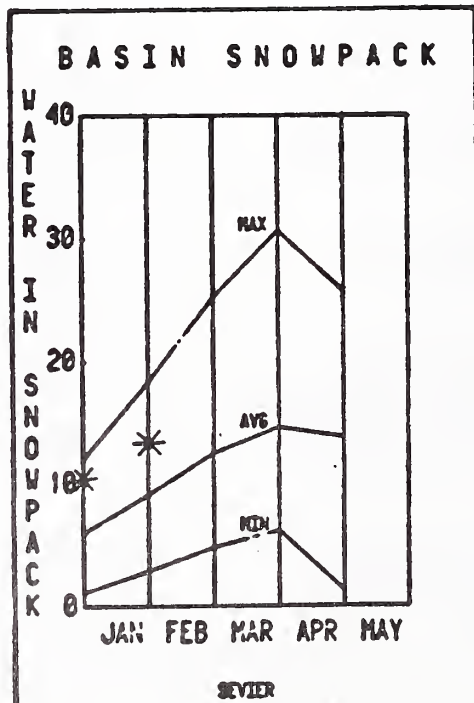
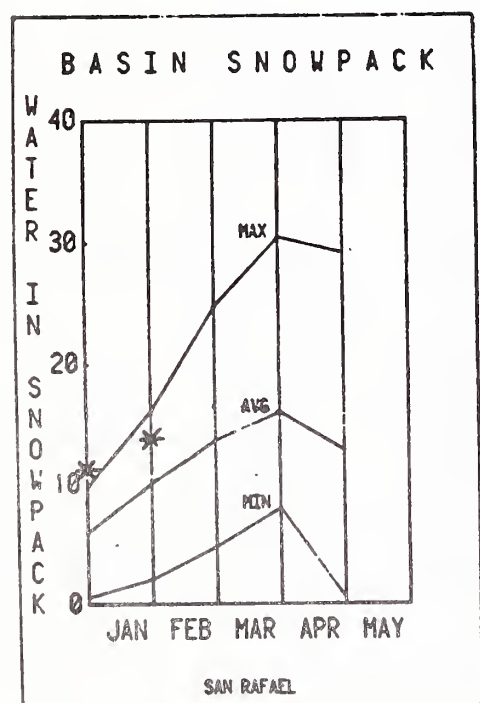
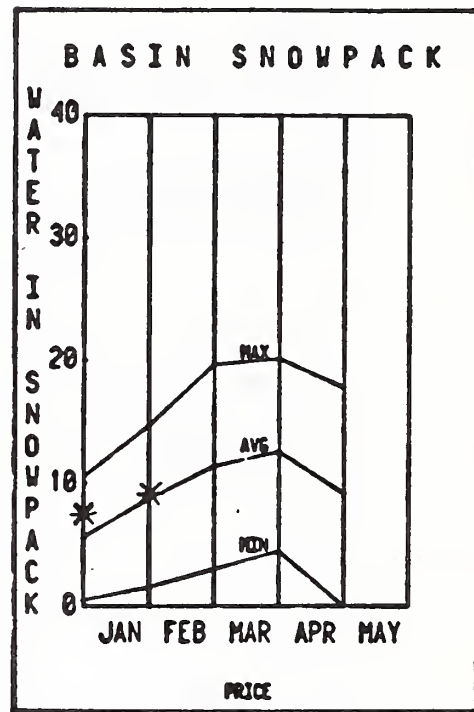
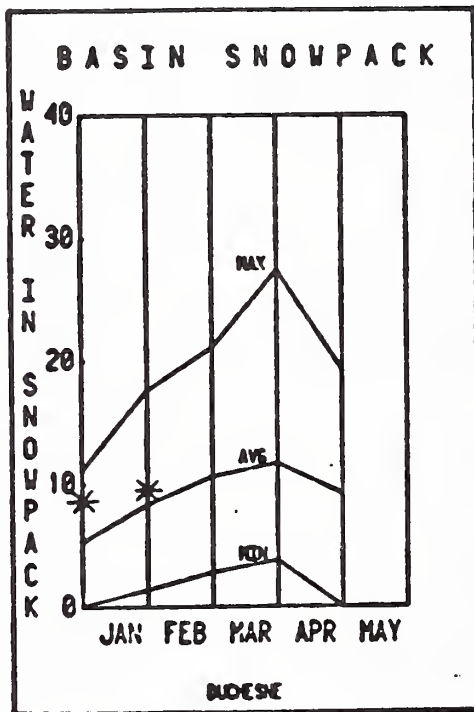
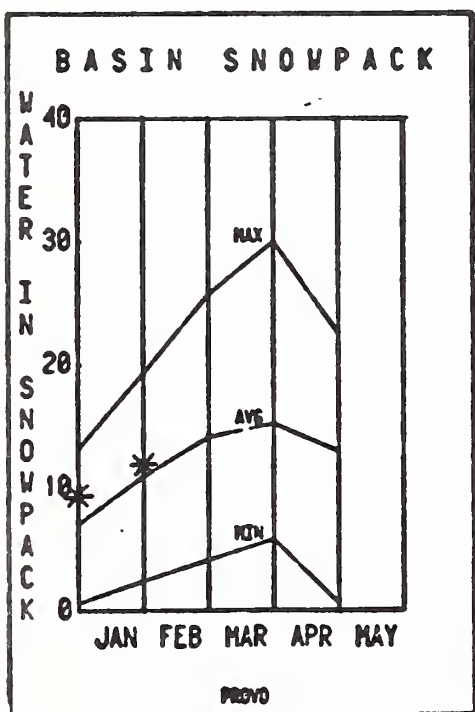
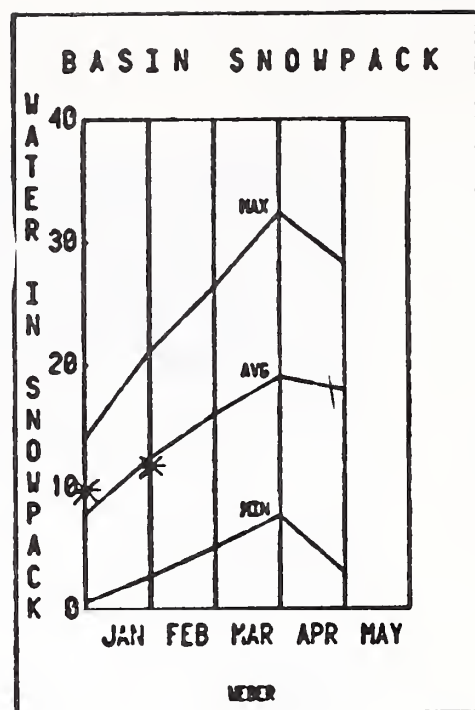
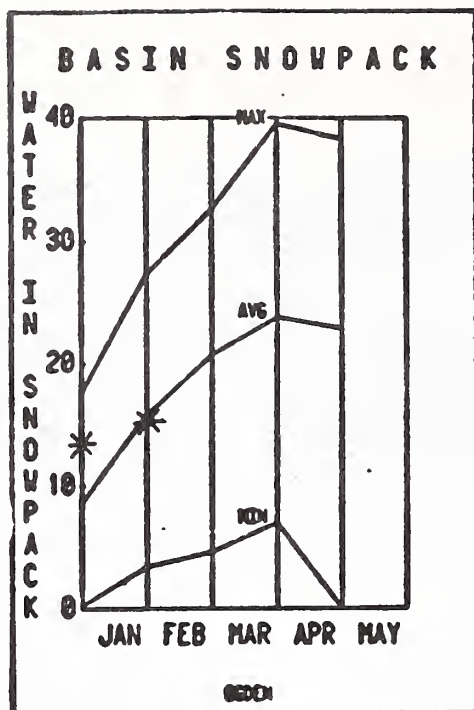
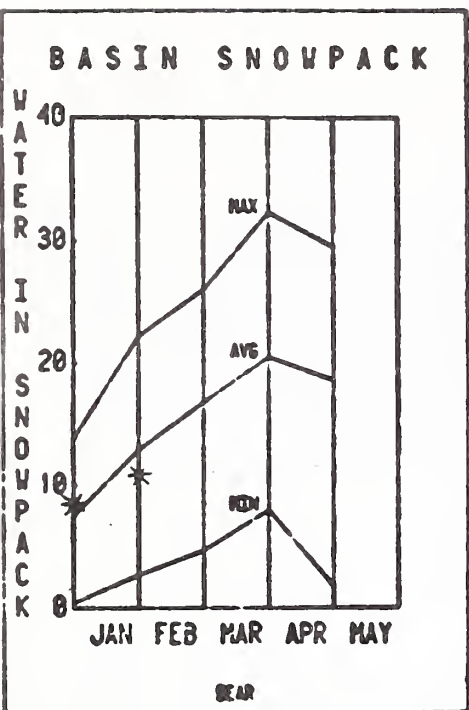
## STREAMFLOW FORECASTS

Forecasts range from 70% of the April-June average for the Little Bear near Paradise to 324% of average for Minersville Reservoir Inflow. Forecasts on the Bear, Weber, and Ogden are generally near average. Provo River-Utah Lake and Duchesne River forecasts are above average. Jordan River tributaries, above Salt Lake, and central and southern Utah streams are generally well above average. Green River forecasts range from 80% of average at Flaming Gorge to 97% at Green River. Colorado River forecasts range from 96% at Cisco to 102% for Lake Powell Inflow. February streamflow at the seven key gaging stations was 168% of average according to the U. S. Geological Survey.



## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

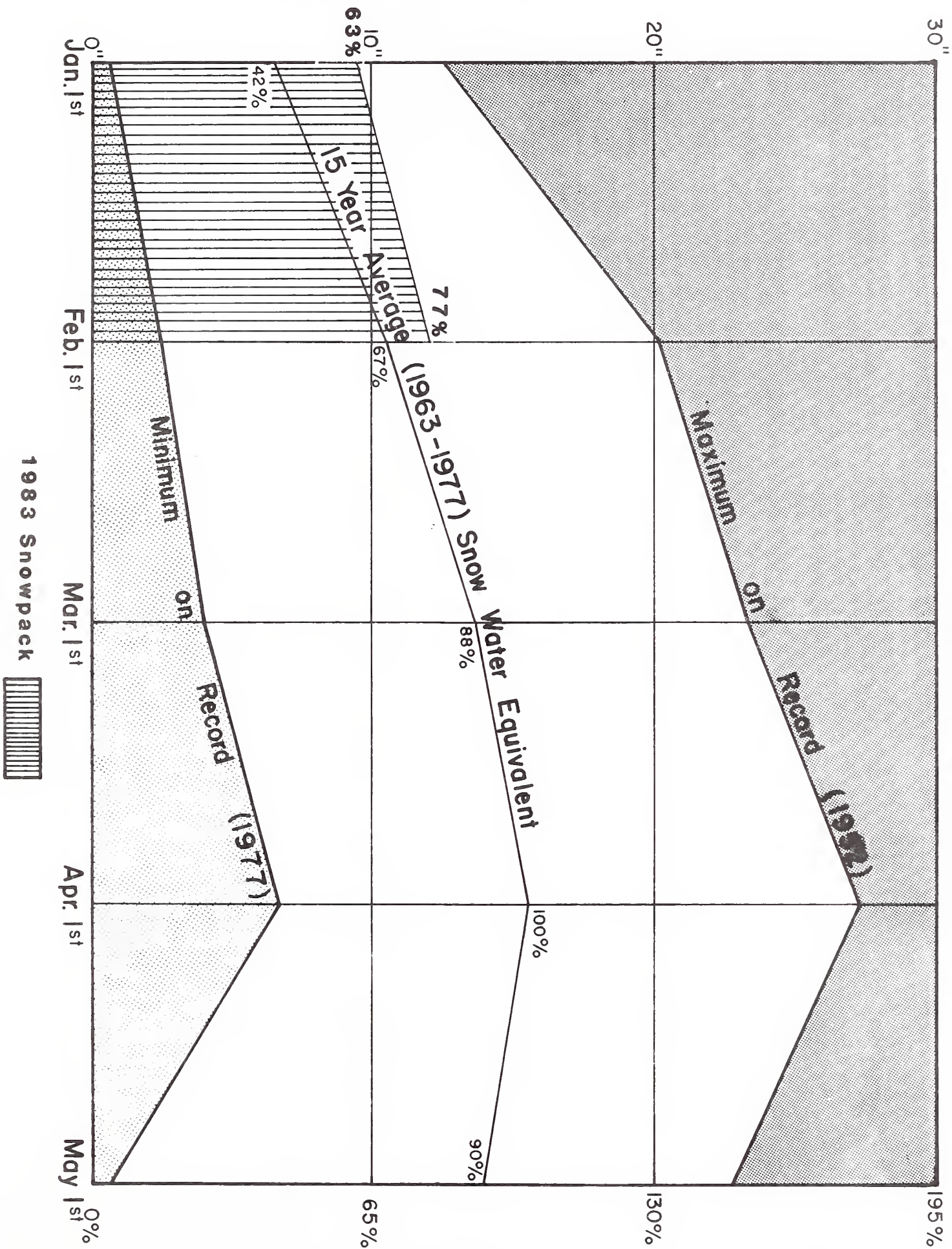
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1140.6	904.3	1026.5
	Woodruff Narrows	55.7	33.3	21.9	19.5
	Birch Creek	2.2	--	--	--
	Woodruff Creek	4.0	2.9	--	--
<u>Beaver River</u>	Minersville (RkyFd)	23.3	22.2	16.0	12.0
<u>Little Bear</u>	Hyrum	15.3	10.3	10.2	10.6
	Porcupine	11.3	4.7	1.9	3.0
<u>Ogden</u>	Causey	6.9	1.1	3.4	2.0 <sup>b</sup>
	Pineview	110.1	76.9	59.7	52.2
<u>Provo</u>	Deer Creek	149.7	111.6	108.5	107.0
<u>Settlement Creek</u>	Settlement Creek	1.2	1.0	1.2	--
	Vernon Creek	0.6	0.5	0.3	--
<u>Sevier River</u>	Gunnison	18.2	17.0	13.4	11.7
	Otter Creek	52.5	49.4	39.6	29.6
	Piute	71.8	60.4	57.2	40.1
	Sevier Bridge	236.0	222.0	178.7	113.6
	Panguitch Lake	22.3	--	--	--
<u>Spanish Fork</u>	Strawberry	270.0	247.0	174.2	150.8
<u>Utah Lake</u>	Utah Lake	883.9	1047.6	792.0	683.1
<u>Weber</u>	East Canyon	48.1	40.7	33.3	27.6
	Echo	73.9	51.4	47.9	48.5
	Lost Creek	20.0	15.0	12.6	12.9
	Rockport	60.9	50.8	35.7	35.2
	Willard Bay	193.3	128.5	144.2	127.2 <sup>b</sup>
COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	32.3	21.9	20.5
	Red Fleet	25.7	20.8	--	--
<u>Colorado</u>	Blue Mesa	829.5	538.2	326.0	--
	Lake Powell	25002.0	22408.0	19606.0	--
<u>Green</u>	Flaming Gorge	3749.0	3214.8	2747.0	--
<u>Lakefork</u>	Moon Lake	35.8	30.3	16.6	16.8
<u>Price River</u>	Scofield	65.8	52.9	33.8	34.7
<u>San Juan</u>	Navajo	1696.0	1401.0	1210.0	--
	Ken's Lake	2.7	0.8	--	--
<u>San Rafael</u>	Huntington North	3.9	3.7	1.7	2.4 <sup>b</sup>
	Joe's Valley	54.6	47.3	33.3	36.0 <sup>b</sup>
	Mill Site	16.7	12.8	5.9	--
<u>Strawberry</u>	Starvation	165.3	128.6	146.6	129.4 <sup>b</sup>
<u>Uintah</u>	Bottle Hollow	11.3	11.1	11.3	9.8 <sup>b</sup>
b=Less than 15 years.					





# UTAH'S WINTER SNOWPACK

Data based on 79 selected snow courses



PERCENT OF APRIL 1<sup>st</sup> SNOW WATER EQUIVALENT

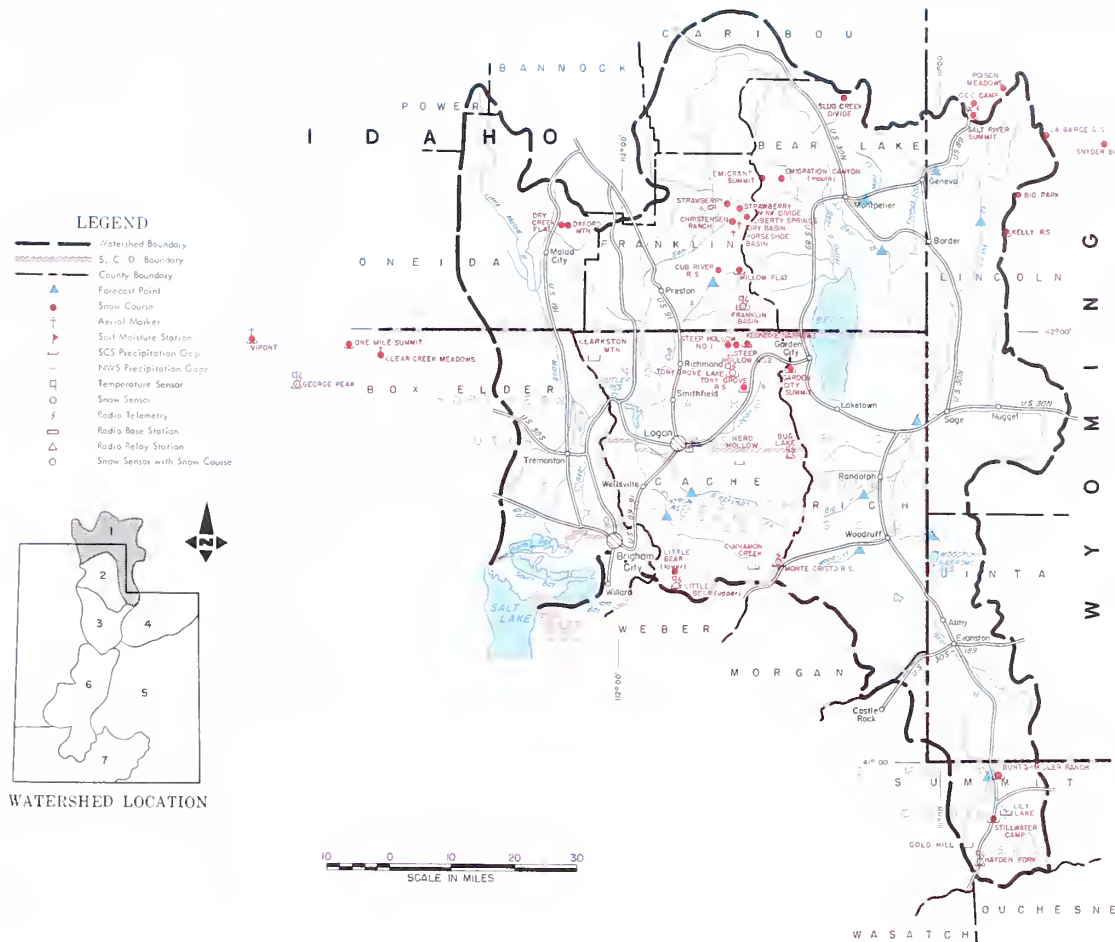




# WATER SUPPLY OUTLOOK

## BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1983

THE 1983 WATER SUPPLY OUTLOOK IS BELOW AVERAGE TO ABOVE AVERAGE

SNOW COVER ranges from 87% of average on the Lower Bear to 77% of average on the Upper Bear. The Logan River snow courses are 86% of average. These percentages are 23 to 35% less than January 1.

PRECIPITATION at mountain stations for January was only 33 to 51% of average. Seasonal (October-January) precipitation now ranges from 47% of average at Monte Cristo to 109% at Willow Flat.

SOIL MOISTURE is above average due to above average August and September precipitation.

RESERVOIR STORAGE ranges from 97% of the February 1 average in Hyrum Reservoir to 171% of average in Woodruff Narrows.

STREAMFLOW FORECASTS range from 70% of the April-June average for the Little Bear to 114% of the April-July average for the Bear at Stateline and Bear at Woodruff. The April-July forecast for Woodruff Creek is 74%, Big Creek 105%, Bear near Randolph 108%, Logan 89%, Blacksmith Fork 90%, and Cub River 96% of average. The April-September forecast for Thomas Fork is 92%, Smith's Fork 82%, and Bear at Harer 79% of average. Forecasts dropped 3 to 36 percentage points from the January 1 forecasts as a result of below average January precipitation.

# BEAR RIVER BASIN IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BEAR RIVER					
Bear nr UT-Wyo. State Line	130	114	Apr-July	146	114
Bear nr Woodruff	169	114	Apr-July	190	148
Woodruff Crk nr Woodruff, UT	13.7	74	Apr-July	--	18.4 <sup>b</sup>
Big Creek nr Randolph, UT	5.7	105	Apr-July	--	5.4 <sup>b</sup>
Bear nr Randolph	129	108	Apr-July	145	120
Thomas Fork nr ID-WY State Ln	32	92	Apr-Sept	--	35
Smith's Fork nr Border, WY	98	82	Apr-Sept	--	120
Bear at Harer, Idaho 1/	263	79	Apr-Sept	--	332
Logan nr Logan 1/	106	89	Apr-July	175	118
Blacksmith Fork nr Hyrum	49	90	Apr-July	83	54
Little Bear nr Paradise	26	70	Apr-June	65	38
Cub River nr Preston, ID	45	96	Apr-July	--	47

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Gauging Stations Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	20	62	84
UPPER BEAR RIVER	6	54	77
LOWER BEAR RIVER	14	64	87
LOGAN RIVER	7	64	86
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 15 years e - Maximum mean daily peak flow + - 1963-77 15 year Average Period			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
BEAR RIVER	Bear Lake	1421.0	1140.6	904.3	1026.5
	Woodruff Narrows	57.3	33.3	21.9	19.5
LITTLE BEAR	Hyrum	15.3	10.3	10.2	10.6
	Porcupine	11.3	4.7	1.9	3.0

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Creek nr Randolph	50-90	63
Logan River nr Logan	610-1200	1016
Woodruff Creek nr Woodruff	190-330	267
Little Bear nr Paradise	290-610	507
Bear nr. Ut.-Wyo. Stateline	1440-2190	1600

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Burts-Miller Ranch	1/28	14	2.4	5.0	--
Cub River R.S.	1/27	22	5.5	8.6	6.4
Emigrant Summit	1/31	54	16.2	24.5	17.0
Franklin Basin	1/27	40	13.0	21.2	17.8 <sup>a</sup>
Hayden Fork	1/28	32	7.8	13.6	9.6 <sup>b</sup>
Klondike Narrows	1/27	35	10.9	17.3	13.0

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Little Bear Lower	1/26	24	7.0	10.4	6.2
Little Bear Upper	1/26	30	8.0	11.3	8.7 <sup>b</sup>
Monte Cristo	1/26	39	12.6	18.9	16.3
Salt River Summit	1/27	34	7.8	15.4	11.0
Stillwater Camp	1/28	26	5.0	10.5	7.2
Tony Grove R.S.	1/26	26	6.9	12.0	8.6

UNITED STATES DEPARTMENT OF AGRICULTURE  
 SOIL CONSERVATION SERVICE  
 Federal Bldg. - Room 4012  
 Salt Lake City, Utah 841138  
 OFFICIAL BUSINESS  
 PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
 U. S. DEPARTMENT OF  
 AGRICULTURE  
 AGR-101



# FIRST CLASS MAIL



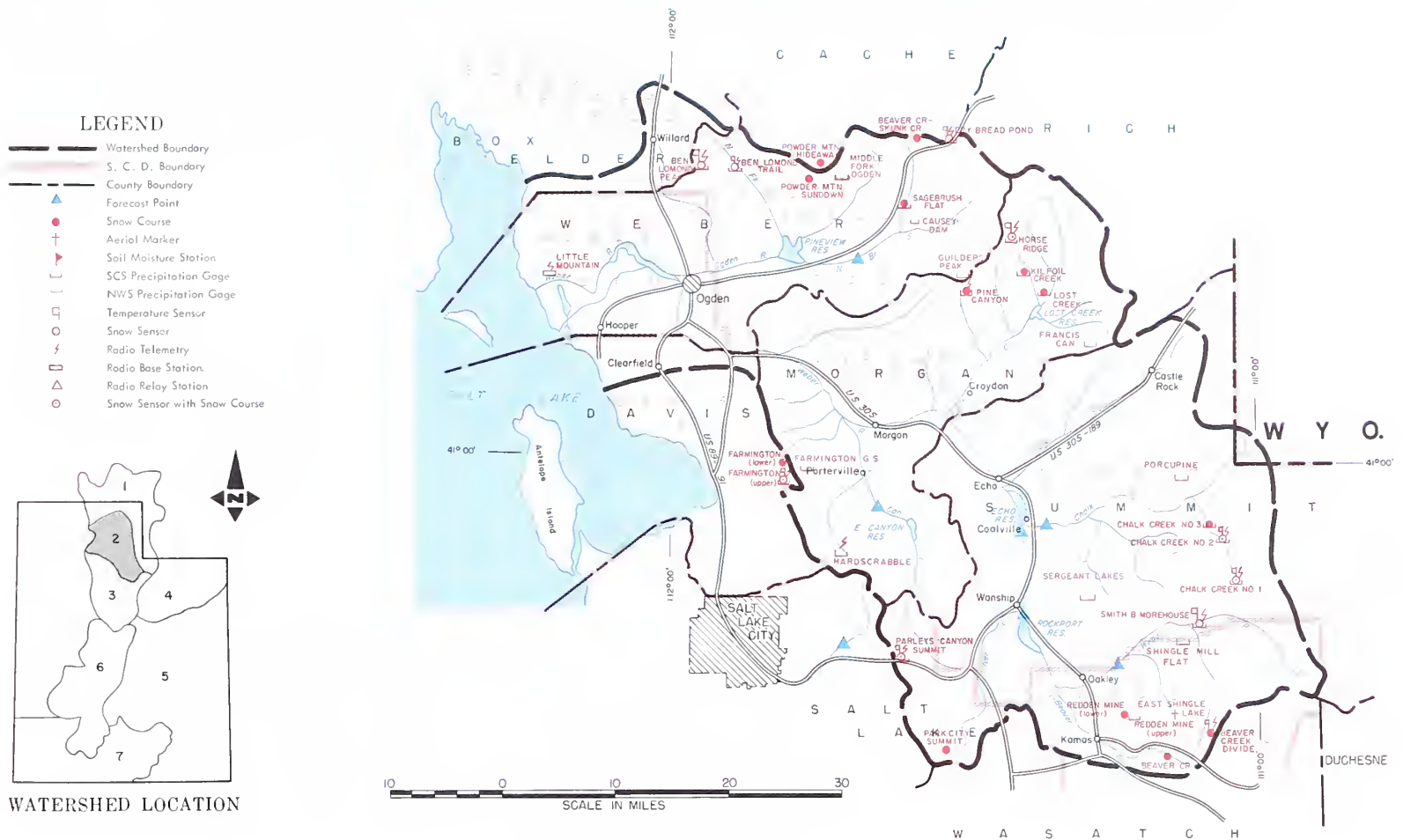
*"The Conservation of Water begins with the Snow Survey"*



# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1983

THE 1983 WATER SUPPLY OUTLOOK IS NEAR AVERAGE

**SNOW COVER** on the Ogden River drainage is 101% of average and 94% on the Weber. This is 78 and 74% of the February 1 snowpack of last year, respectively, and represents a drop of 69 percentage points for the Ogden and 28 percentage points for the Weber from the levels measured one month ago.

**PRECIPITATION** at mountain stations for the month of January was very light ranging from 32% of average at Causey Dam to 54% at Smith and Morehouse. Seasonal (October-January) totals now range from 64% at Sagebrush Flat to 101% of average at Ben Lomond Trail.

**SOIL MOISTURE** is above average as a result of heavy September rains prior to snow accumulations.

**RESERVOIR STORAGE** is above average with the exception of Causey.

**STREAMFLOW FORECASTS** now range from 88% of the April-June average for Lost Creek and South Fork Ogden to 114% for East Canyon Creek. The Weber near Oakley is forecast at 106%, Rockport Inflow 108%, Chalk at Coalville 107%, Weber near Coalville 106%, Hardscrabble 111%, Pineview Inflow 98%, Echo Inflow 107%, and Weber at Gateway 107% of the April-June average. Farmington Creek is forecast at 109% of the April-July average. All water users on streams with storage should have adequate water supplies this season. Peak flows should not present a hazard if melt rates are normal.

# WEBER-OGDEN WATERSHEDS IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	111	106	Apr-June	133	104
Rockport Reservoir Inflow 1/	121	108	Apr-June	172	112
Chalk Creek at Coalville	42	107	Apr-June	61	40
Weber nr Coalville	130	106	Apr-June	175	123
Lost Creek nr Croydon, UT	15.3	88	Apr-June	24	17.4 <sup>b</sup>
East Canyon Creek nr Morgan 1/	30	114	Apr-June	44	26
Hardscrabble Crk nr Porterville	21	111	Apr-June	--	18.6 <sup>b</sup>
South Fork Ogden nr Huntsville	50	88	Apr-June	92	57
Pineview Reservoir Inflow 2/	112	98	Apr-June	168	115
Echo Reservoir Inflow	171	107	Apr-June	215	160
Weber at Gateway	333	107	Apr-June	396	310
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	8.8	109	Apr-July	--	8.1 <sup>b</sup>

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
OGDEN RIVER	5	78	101
WEBER RIVER	9	74	94
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 15 years e - Maximum mean daily peak flow + - 1963-77 15 year Average Period			

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
OGDEN	Causey	6.9	1.1	3.4	2.0 <sup>b</sup>
	Pineview	110.1	76.9	59.7	52.2
WEBER	East Canyon	48.1	40.7	33.3	27.6
	Echo	73.9	51.4	47.9	48.5
	Lost Creek	20.0	15.0	12.6	12.9
	Rockport	60.9	50.8	35.7	35.2
	Willard Bay	193.3	128.5	144.2	127.2 <sup>b</sup>

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Lost Creek nr Croydon	180-300	220
South Fork Ogden nr Huntsville	520-760	772
Chalk Creek nr Coalville	440-780	568
Weber nr Oakley	1220-2140	1560

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Beaver Creek R.S.	1/30	24	5.4	8.6	5.9
Beaver Creek-Skunk Creek	1/26	23	7.5	11.0	8.3
Ben Lomond Peak	1/26	72	25.5	27.0	22.4 <sup>b</sup>
Ben Lomond Trail	1/26	45	13.4	17.8	12.4 <sup>b</sup>
Chalk Creek #1	1/28	48	13.6	21.4	13.6 <sup>a</sup>
Chalk Creek #2	1/28	35	8.7	13.1	9.7
Chalk Creek #3	1/28	23	4.6	7.0	5.4
Dry Bread Pond	1/26	32	10.0	14.0	12.2

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Horse Ridge	1/26	38	11.4	18.2	15.0 <sup>a</sup>
Lost Creek Reservoir	1/26	12	3.0	6.8	--
Monte Cristo	1/26	39	12.6	18.9	16.3
Parleys Canyon Summit	1/28	46	10.8	14.6	12.7
Sagebrush Flat	1/26	14	3.4	6.9	4.1
Smith & Morehouse	1/28	32	8.5	11.5	8.9
Trial Lake	1/30	57	14.8	22.8	15.6

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Federal Bldg. - Room 4012  
Salt Lake City, Utah 84138

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



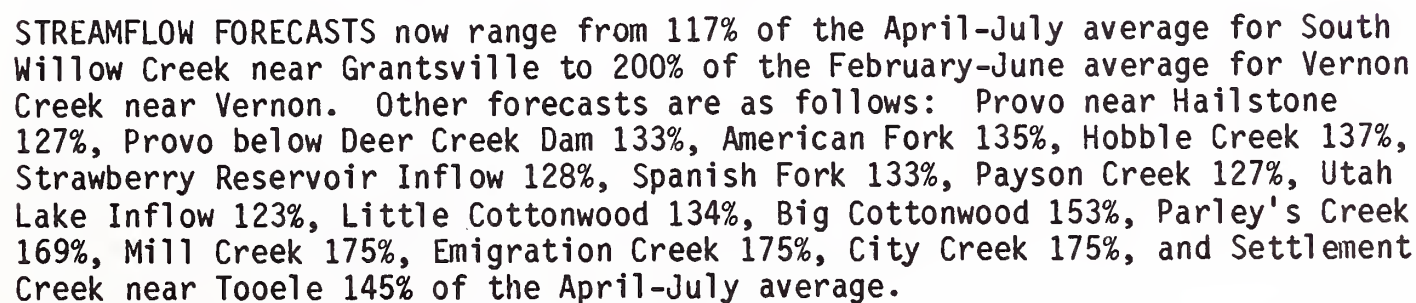
FIRST CLASS MAIL



"The Conservation of Water begins with the Snow Survey"



UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES





## UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Forecast Thousand Acres Feet	Percent of Average		Thousand Acres Feet	Percent of Average
<b>PROVO RIVER AND UTAH LAKE</b>					
Provo nr Hailstone 1/	130	127	Apr-July	153	102
Provo below Deer Creek Dam 1/	160	133	Apr-July	--	120
American Fork nr American Fork	42	135	Apr-July	--	31
Hobble Creek nr Springville	27	137	Apr-July	--	19.7 <sup>b</sup>
Strawberry Reservoir Inflow 1/	67	128	Apr-July	95	52
Spanish Fork at Thistle	52	133	Apr-July	--	39
Payson Creek nr Payson	8.0	127	Apr-July	--	6.3
Utah Lake Inflow	300	123	Apr-July	--	244
<b>JORDON RIVER &amp; SALT LAKE</b>					
Little Cottonwood Crk nr SLC	51	134	Apr-July	--	38
Big Cottonwood nr SLC	58	153	Apr-July	--	38
Parley's Creek nr SLC	26	169	Apr-July	--	15.4
Mill Creek nr SLC	11.0	175	Apr-July	--	6.3
Emigration Creek nr SLC	7.0	175	Apr-July	--	4.9
City Creek nr SLC	14.0	175	Apr-July	--	10.7
<b>TOOELE VALLEY</b>					
Vernon Creek nr Vernon	1.8	200	Feb-June	1.6	0.9
Settlement Crk nr Tooele	3.3	145	Apr-July	--	2.3
S. Willow Crk nr Grantsville	3.4	117	Apr-July	4.2	2.9

## SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and or SUB-DRAINAGE	Number of Averaging Stations	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	13	81	110
JORDON RIVER & SALT LAKE	5	84	113
TOOELE VALLEY	2	145	147

1 - Observed flow corrected for change in storage and diversions  
3 - Provisional flows - subject to correction  
a - Partly estimated  
b - Average of past record - less than 15 years  
+ - 1963-77 15 year average period  
e - Maximum daily peak flow

## RESERVOIR STORAGE (Thousand Acres Foot)

BASIN OF STREAM	RESERVOIR	Usable Capacity	USABLE STORAGE		
			This Year	Last Year	Average
SPANISH FORK	Strawberry	270.0	247.0	174.2	150.8
UTAH LAKE	Utah Lake	883.9	1047.6	792.0	683.1
	Settlement Creek	1.2	1.0	1.2	--
	Vernon Creek	0.6	0.5	0.3	--
PROVO	Deer Creek	149.7	111.6	108.5	107.0

PEAK FLOWS <sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
American Fork		
Provo nr Hailstone		
Spanish Fork nr Thistle		
Big Cottonwood nr Salt Lake City		
Little Cottonwood nr Salt Lake City		
Mill Creek nr Salt Lake City		
Parley's Creek nr Salt Lake City		
Emigration Creek nr Salt Lake City		
City Creek nr Salt Lake City		
Stone Creek nr Bountiful		

## SNOW

DRAINAGE BASIN and or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Snow Content (Inches)	Snow Content (Inches)	
NAME				Last Year	Average
Bevans Cabin		NOT MEASURED			
Camp Altamont	1/29	50	14.3	13.8	10.2
Clear Creek #1	1/26	39	12.0	16.0	11.2 <sup>b</sup>
Clear Creek #2	1/26	35	9.7	13.5	9.6 <sup>b</sup>
Clear Creek #3	1/26	25	6.0	7.2	5.5
Daniels-Strawberry Summit	1/26	38	10.8	12.5	10.0
Deseret Peak	2/3	65	19.9	21.8	--
Dutchman R.S.	1/29	56	15.8	19.0	12.9
Hobble Creek Summit	1/26	37	9.2	13.9	9.6
Lamb Canyon #2	1/28	42	10.2	16.4	11.1 <sup>a</sup>
Middle Canyon	1/30	47	12.8	8.6	9.2
Mill Creek	1/26	42	11.2	15.4	--

## SNOW

DRAINAGE BASIN and or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Snow Content (Inches)	Snow Content (Inches)	
NAME				Last Year	Average
Mill D South Fork	1/27	43	12.6	19.0	13.2
Parley's Canyon Summit	1/28	46	10.8	14.6	12.7
Payson R.S.	1/31	52	13.7	13.4	12.2
Rocky Basin-Settlement Canyon	2/3	73	24.6	19.1	--
Silver Lake Brighton	1/27	53	16.8	24.2	15.8
Soapstone R.S.	1/30	30	6.2	11.8	8.6
South Fork R.S.	1/28	33	8.7	7.9	4.5
Timpanogos Divide	1/29	68	20.7	20.0	16.9
Trial Lake	1/30	57	14.8	22.8	15.6
Vernon Creek	1/30	44	11.8	8.4	7.5 <sup>b</sup>

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICEFederal Bldg. - Room 4012  
Salt Lake City, Utah 84138OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101

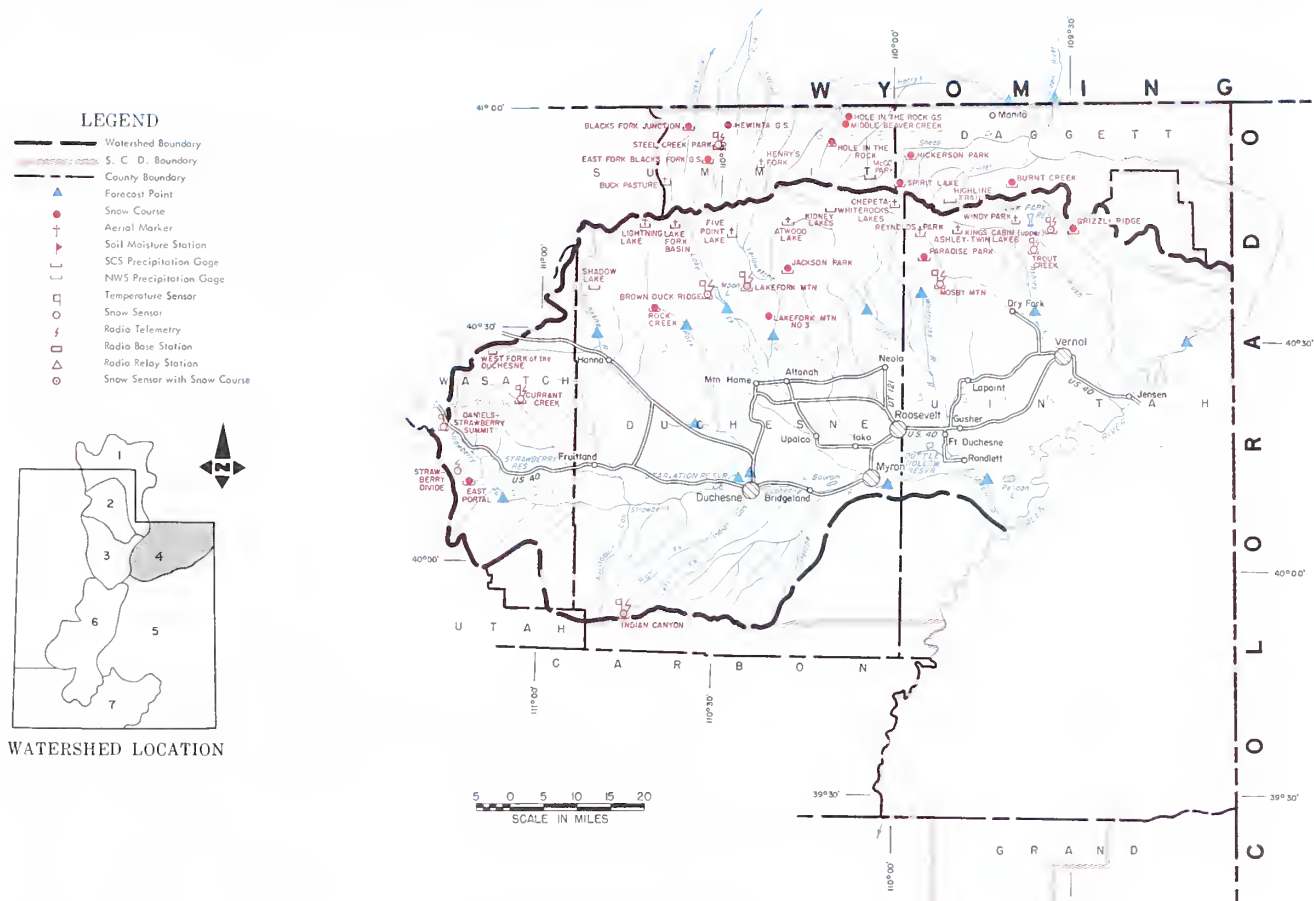
FIRST CLASS MAIL

*"The Conservation of Water begins with the Snow Survey"*

# WATER SUPPLY OUTLOOK

## UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1983

THE WATER SUPPLY OUTLOOK IS NEAR TO ABOVE AVERAGE

**SNOW COVER** ranges from 102% for the Strawberry River to 159% of the February 1 average for Ashley Creek. The Duchesne River is 131%, Lakefork-Yellowstone Rivers 155%, and Uintah-Whiterocks Rivers 147% of average for February.

**PRECIPITATION** at mountain stations for the month of January ranged from 12% of average at Grizzly Ridge to 63% at East Portal. October-January totals now range from average at Daniels-Strawberry to 136% at Grizzly Ridge.

**SOIL MOISTURE** is above average due to above average August and September precipitation.

**RESERVOIR STORAGE** ranges from 99% to 180% of the February 1 average.

**STREAMFLOW FORECASTS** range from 80% of the April-July average for Flaming Gorge Inflow to 142% of the April-July average for the Whiterocks and Uintah Rivers. The Duchesne near Tabiona is forecast at 116%, Duchesne at Duchesne 113%, Strawberry at Duchesne 113%, Rock Creek 109%, Currant Creek 110%, Lakefork 126%, Yellowstone 125%, Duchesne at Myton 129%, Duchesne at Randlett 132%, West Fork Duchesne 119%, Black's Fork 87%, and Ashley Creek 135% of the April-July average. Henry's Fork near Manila is forecast at 86% of the April-September average.



# UINTAH BASIN AND DAGGETT SCD's IN UTAH

## STREAMFLOW FORECASTS

DRAINAGE BASIN and FORECAST POINT	THIS YEAR		FORECAST	PAST RECORD	
	Forecast Last Year	Forecast Average		Last Year	Average
<b>DUCHESNE RIVER</b>					
Duchesne nr Tabiona 1/	124	116	Apr-July	170	107
Duchesne at Duchesne 1/	218	113	Apr-July	264	193
Strawberry at Duchesne	72	126	Apr-July	91	57
Rock Creek nr Mtn. Home	104	109	Apr-July	112	95
Current Creek nr Fruitland	22	110	Apr-July	32	20
Lakefork below Moon Lake 1/	91	126	Apr-July	79	72
Yellowstone nr Altonah	83	125	Apr-July	74	67
Duchesne at Myton 1/	271	129	Apr-July	275	210
Whiterocks nr Whiterock	85	142	Apr-July	62	60
Uintan nr Heola	126	142	Apr-July	90	89
Duchesne at Randlett 1/	350	132	Apr-July	336	266
West Fork Duchesne at Hanna	31	119	Apr-July	--	26
<b>FLAMING GORGE TO DUCHESNE RIVER</b>					
Henry's Fork nr Manila	46	86	Apr-Sept	38	54
Black's Fork at Millburne	80	87	Apr-July	95	92
Flaming Gorge Inflow 1/	1030	80	Apr-July	--	1292
Ashley Creek nr Vernal	69	135	Apr-July	50	51

## SUMMARY OF SNOW MEASUREMENTS

DRAINAGE BASIN and SNOW COURSE	THIS YEAR		PAST RECORD
	Forecast	Average	
<b>DUCHESNE RIVER - TOTAL</b>	12	91	131
<b>LAKEFORK-YELLOWSTONE CREEKS</b>	4	100	155
<b>STRAWBERRY RIVER</b>	4	72	102
<b>UINTAH - WHITEHORNS RIVERS</b>	2	119	147
<b>ASHLEY CREEK</b>	2	147	159

1 - Observed flow corrected for change in storage and diversions  
2 - Inflow record as computed by U. S. Bureau of Reclamation  
3 - Provisional flows - Subject to Correction  
a - Partly estimated  
b - Average of all past record - less than 15 years  
e - Maximum mean daily peak flow  
+ - 1963-77 15 year Average Period

## RESERVOIR STORAGE (Thousand Acre Feet)

DRAINAGE BASIN and STREAM	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
<b>ASHLEY CREEK</b>	Steinaker	33.3	32.3	21.9	20.5
<b>GREEN RIVER</b>	Flaming Gorge	3749.0	3214.8	2747.0	--
<b>LAKE FORK</b>	Moon Lake	35.8	30.3	16.6	16.8
<b>STRAWBERRY</b>	Starvation	165.3	128.6	146.6	129.4b
<b>UINTAH</b>	Bottle Hollow	11.3	11.1	11.3	9.8b

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (CFS) AND FEET	
	Forecast Range	Average
Strawberry at Duchesne	380-1210	656
Ashley Creek nr Vernal	600-1600	1030

## SNOW

DRAINAGE BASIN and SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (inches)	Snow Cover (inches)	Last Year	Average
<b>Brown Duck Ridge</b>	1/30	58	16.1	18.5	9.5e
<b>Current Creek</b>	1/26	32	7.7	8.4	7.3e
<b>Daniels-Strawberry</b>	1/26	38	10.8	12.5	10.0
<b>Hewinta G. S.</b>	1/28	24	4.9	8.5	--
<b>Nickerson Park</b>	1/28	24	4.9	4.3	--
<b>Jackson Park</b>	1/29	43	12.1	11.3	7.4e
<b>Kings Cabin Upper</b>	1/29	36	9.8	7.5	7.5

## SNOW

DRAINAGE BASIN and SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (inches)	Snow Cover (inches)	Last Year	Average
<b>Lakefork Mountain</b>	1/29	38	9.3	9.0	6.8
<b>Mosby Mountain</b>	1/29	35	9.0	6.6	6.3
<b>Paradise Park</b>	1/29	45	12.5	11.4	8.3
<b>Rock Creek Ranch</b>	1/29	26	6.3	6.1	3.7e
<b>Spirit Lake</b>	1/28	35	9.3	10.3	--
<b>Steel Creek Park</b>	1/28	44	10.5	14.7	9.4e
<b>Strawberry Divide</b>	1/31	49	12.2	18.3	12.4
<b>Trout Creek</b>	1/29	38	10.6	6.6	5.3e

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
Federal Bldg. - Room 4012  
Salt Lake City, Utah 84138

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



**FIRST CLASS MAIL**



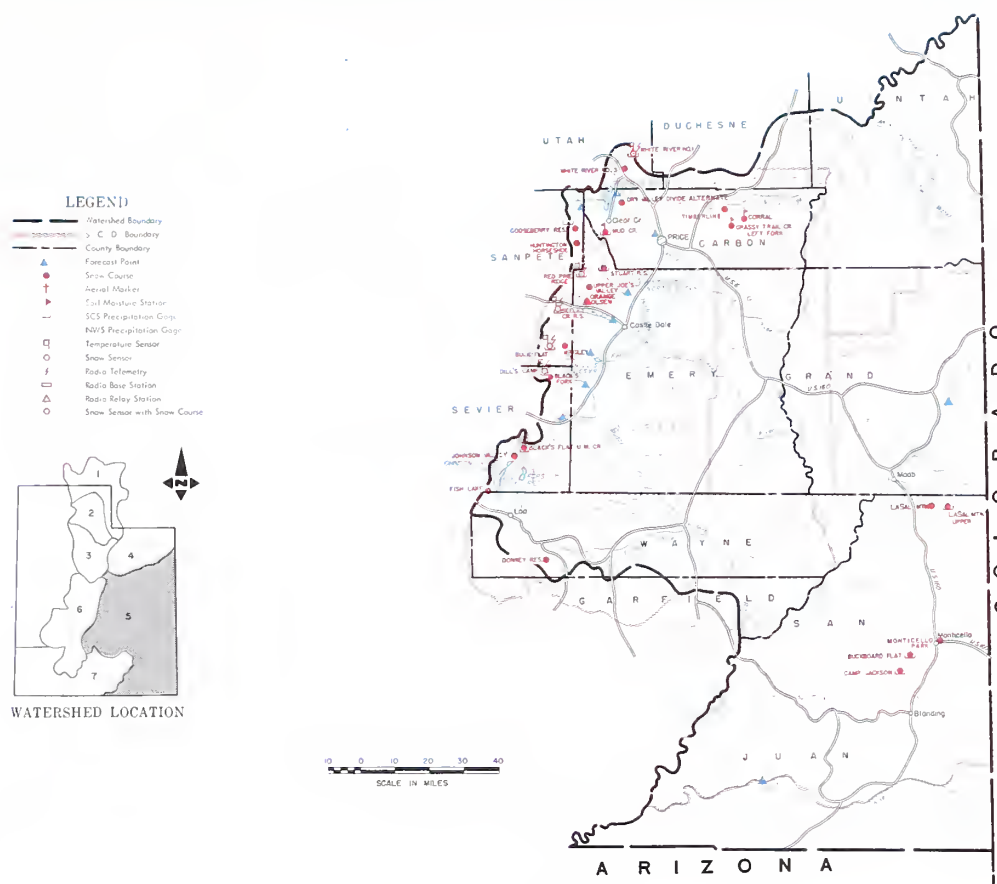
*"The Conservation of Water begins with the Snow Survey"*



# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1983

THE WATER SUPPLY OUTLOOK IS NEAR TO ABOVE AVERAGE

**SNOW COVER** on the Southeastern Utah drainages ranges from 104% of average on the Price River to 167% on the Blue Mountains. The San Rafael River is at 134%, Fremont 147%, La Sal Mountains 156%, and Muddy River 143% of the February 1 average.

**PRECIPITATION** at mountain stations ranged from 47% at Mud Creek to 71% of the January average at Fish Lake.

**SOIL MOISTURE** is above average after heavier than normal precipitation in August, September, and early October.

**RESERVOIR STORAGE** is well above average with Scofield at 152%, Huntington North 154%, and Joe's Valley 131% of the February 1, average.

**STREAMFLOW FORECASTS** range from 96% for the Colorado near Cisco to 180% of the April-July average for Mill Creek near Moab. Gooseberry Creek near Scofield is 129%, Scofield Reservoir Inflow 138%, Price River 117%, Huntington Creek 139%, Cottonwood Creek 143%, Ferron Creek 174%, Muddy Creek 160%, Green River at Green River 97%, Navajo Reservoir Inflow 115%, San Juan 112%, and Seven Mile Creek near Fish Lake is 113% of the April-July forecast period average.

## CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and FORECAST POINT	THIS YEAR			PAST RECORD	
	Flow at Thousand Ac. a Foot	Percent of Average	FORECAST PERIOD	THAN SAME AVERAGE Last Year	Average †
<b>PRICE RIVER</b>					
Gooseberry Crk nr Scofield	13.0	129	Apr-July	--	10.1
Scofield Reservoir Inflow	49	138	Apr-July	--	36
Price nr Helner 1/	75	117	Apr-July	--	64
<b>SAN RAFAEL RIVER</b>					
Huntington Crk nr Huntington	64	139	Apr-July	--	49 <sup>b</sup>
Cottonwood Crk nr Orangeville	64	143	Apr-July	65	44 <sup>b</sup>
Ferron Creek nr Ferron	59	174	Apr-July	49	34
<b>MUDDY CREEK</b>					
Muddy Creek nr Emery	27	160	Apr-July	27	16.9
<b>UPPER COLORADO BASIN</b>					
Colorado nr Cisco, UT	2600	96	Apr-July	--	2716
Green at Green River, UT	2875	97	Apr-July	--	2974
Mill Creek nr Moab	9.2	180	Apr-July	4.2	5.1 <sup>b</sup>
Navajo Reservoir Inflow	700	115	Apr-July	--	608
San Juan nr Bluff, UT	970	112	Apr-July	--	865
<b>FREMONT RIVER</b>					
Seven Mile Crk nr Fish Lake	7.2	113	Apr-July	7.2	6.4

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USABLE STORAGE		
			This Year	Last Year	Average †
PRICE RIVER	Scofield	65.8	52.9	33.8	34.7
SAN RAFAEL	Huntington North	3.9	3.7	1.7	2.4 <sup>b</sup>
	Joe's Valley	54.6	47.3	33.3	36.0 <sup>b</sup>
	Mill Site	16.7	12.8	5.9	--
SAN JUAN	Navajo	1696.0	1401.0	1210.0	--
	Kens Lake	2.7	0.8	--	--

## SUMMARY of SNOW MEASUREMENTS (COMPARISON TO PREVIOUS YEARS)

DRAINAGE BASIN and SUBWATERWAY	Number of Surveys	THIS YEAR AS A PERCENT OF	
		1963-77 Average	1963-77 Average
PRICE RIVER	3	71	104
SAN RAFAEL RIVER	6	92	134
FREMONT RIVER	3	137	147
LASAL MOUNTAINS	2	156	156
BLUE MOUNTAINS	2	199	167
MUDDY RIVER	2	87	143

- 1 - Observed flow corrected for change in storage and diversions  
 2 - Inflow record as computed by U. S. Bureau of Reclamation  
 3 - Provisional flows - Subject to Correction  
 a - Partly estimated  
 b - Average of all past record - less than 15 years  
 e - Maximum mean daily peak flow  
 + - 1963-77 15 year Average Period

PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW SECOND FEET	
	Period Range	Average †
Ferron Creek near Ferron	530-840	422
Muddy Creek near Emery	200-320	154

## SNOW

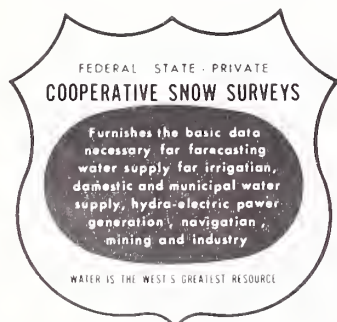
DRAINAGE BASIN and SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (inches)	Water Content (inches)	Last Year	Average †
Buck Flat	1/28	59	15.5	15.2	10.2
Buckboard Flat	1/28	42	10.9	5.5	7.1 <sup>a</sup>
Camp Jackson	1/28	46	13.2	6.6	7.3 <sup>a</sup>
Dills Camp	1/28	46	10.2	10.9	7.0 <sup>a</sup>
Dry Valley Divide Alternate	1/26	25	5.5	9.2	--
Huntington-Horseshoe	1/27	53	18.5	22.5	14.8 <sup>b</sup>
Red Pine Ridge	1/27	47	13.0	16.0	10.7

## SNOW

DRAINAGE BASIN and SNOW COURSE	Date of Survey	Snow Depth (inches)	Water Content (inches)	PAST RECORD	
				Last Year	Average †
Mammoth-Cottonwood R.S.	1/27	52	15.3	18.9	13.2
Monticello City Park	NOT MEASURED			0.5	--
Mud Creek	1/27	39	9.3	13.4	8.8
Seeley Creek	1/27	47	13.3	10.9	9.3 <sup>b</sup>
White River #1	1/26	37	9.2	12.1	8.6 <sup>a</sup>
White River #3	1/26	24	5.8	8.7	5.9 <sup>a</sup>

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICEFederal Bldg. - Room 4012  
Salt Lake City, Utah 84138OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101

FIRST CLASS MAIL

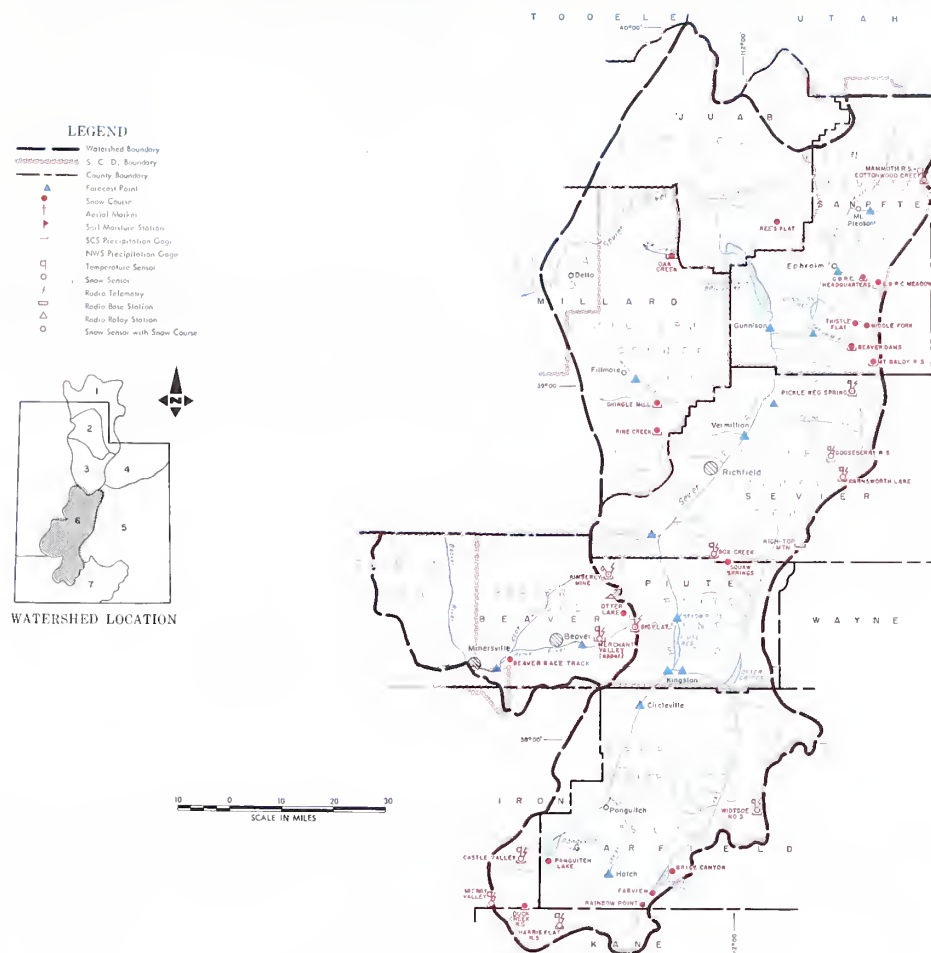


"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK

## SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1983

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

**SNOW COVER** is still well above average and ranges from 131% on the Lower Sevier to 181% on South Fork Sevier. East Fork Sevier is at 170% and the Beaver River drainage is 159% of the February 1 average.

**PRECIPITATION** at mountain stations during January ranged from 55% at Gooseberry Reservoir to 107% of average at G.B.R.C. Headquarters. October-January totals range from 57% of average at Farnsworth Lake to 146% at Merchant Valley.

**SOIL MOISTURE** is above average as a result of greater than average fall precipitation.

**RESERVOIR STORAGE** is well above average with usable storage ranging from 145% to 195% of average February 1 levels.

**STREAMFLOW FORECASTS** range from 120% of the April-July average for Salt Creek near Nephi to 324% of the April-June average for Minersville Inflow. The Sevier River is forecast 195% at Hatch, 190% at Circleville, 186% at Kingston, 178% for the East Fork, and 170% at Gunnison. Salina Creek is forecast 158%, Clear Creek 152%, Chicken Creek 165%, Ephraim Creek 159%, and Pleasant Creek 137% of the April-July average.

Beaver River is forecast 188% and North Creeks 171% of the April-July average.



# SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Forecast Last Year	Percent of Average		Last Year	Average
SEVIER RIVER					
Sevier at Hatch	80	195	Apr-July	--	41
Sevier nr Circleville	55	190	Apr-July	--	29
Sevier nr Kingston	42	186	Apr-July	--	23
Antimony Crk nr Antimony	12.2	177	Apr-July	--	6.9
East Fork Sevier nr Kingston/	27	178	Apr-July	--	15.2
Sevier below Piute Dam	65	182	Apr-July	--	36
Clear Crk nr Sevier (abv Div)	27	152	Apr-July	--	17.8
Sigurd to Gunnison	47	181	Apr-July	--	--
Kingston to Vermillion Dam	100	179	Apr-June	--	56
Vermillion Dam to Gunnison	65	186	Mar-June	--	35
Salina Creek at Salina	17.5	158	Apr-June	--	11.1
Sevier nr Gunnison	85	170	Apr-July	--	50
Chalk Creek nr Fillmore	29	175	Apr-July	--	16.3
Chicken Creek nr Levan	5.1	165	Apr-July	6.0	3.1
Oak Cr. nr Oak City	2.3	161	Apr-July	1.9	1.4
Ephraim Creek nr Ephraim	24	159	Apr-July	--	14.5
Pleasant Crk nr Mt. Pleasant	11.5	137	Apr-July	--	8.4
Salt Creek nr. Nephi	14.6	120	Apr-July	--	12.2
Beaver nr Beaver	38	188	Apr-July	31	20
North Creek (Combined)	24	171	Apr-July	--	13.7b
Minersville Inflow	21	324	Apr-June	--	6.6

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	VISIBLE STORAGE		
			This Year	Last Year	Average
SEVIER RIVER	Gunnison	18.2	17.0	13.4	11.7
	Otter Creek	52.5	49.4	39.6	29.6
	Piute	71.8	60.4	57.2	40.1
	Sevier Bridge	236.0	222.0	178.7	113.6
BEAVER RIVER	Minersville (Rky Fd)	23.3	22.2	16.0	12.0

## SUMMARY of SNOW MEASUREMENTS

BASIN and/or SUB-DRAINAGE	Number of Averaging Stations	This Year	Past Record
UPPER SEVIER RIVER	9	171	178
East Fork Sevier	3	129	170
South Fork Sevier	6	190	181
LOWER SEVIER	10	100	131
BEAVER RIVER	3	121	159

1 - Observed flow corrected for change in storage and diversions  
 2 - Inflow record as computed by U. S. Bureau of Reclamation  
 3 - Provisional flows - Subject to Correction  
 a - Partly estimated  
 b - Average of all past record - less than 15 years  
 e - Maximum mean daily peak flow  
 + - 1963-77 15 year Average Period

## PEAK FLOWS

FORECAST POINT	PEAK FLOW - RECORD FEET	
	Forecast Range	Average
Sevier River at Hatch	320-580	211
Beaver River nr Beaver		
Sevier River nr Kingston		
Clear Creek nr Sevier		
Salina Creek nr Salina		
Beaver River nr Beaver		

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Big Flat	1/31	54	15.1	14.2	10.0
Bryce Canyon	1/29	31	6.8	3.9	3.0
Castle Valley	1/30	53	13.9	7.1	7.5a
Duck Creek	1/30	58	15.2	7.4	8.0
Farnsworth Lake	1/29	47	13.2	14.5	11.8
Gooseberry R.S.	1/29	32	8.0	7.3	7.4

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Harris Flat	1/30	44	10.4	5.2	5.3
Kimberly Mine	1/31	41	10.6	10.6	9.5b
Long Valley Junction	1/30	34	8.7	3.4	3.2
Merchants Valley Upper	1/31	47	12.6	8.9	7.5b
Midway Valley	1/30	80	23.7	10.1	12.7
Otter Lake	1/31	46	12.1	9.7	7.5
Pickle Keg Springs	1/28	52	13.4	12.4	10.5
Widtsue-Escalante #3	1/29	44	9.5	8.2	6.4

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
Federal Bldg. - Room 4012  
Salt Lake City, Utah 84138

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



# FIRST CLASS MAIL

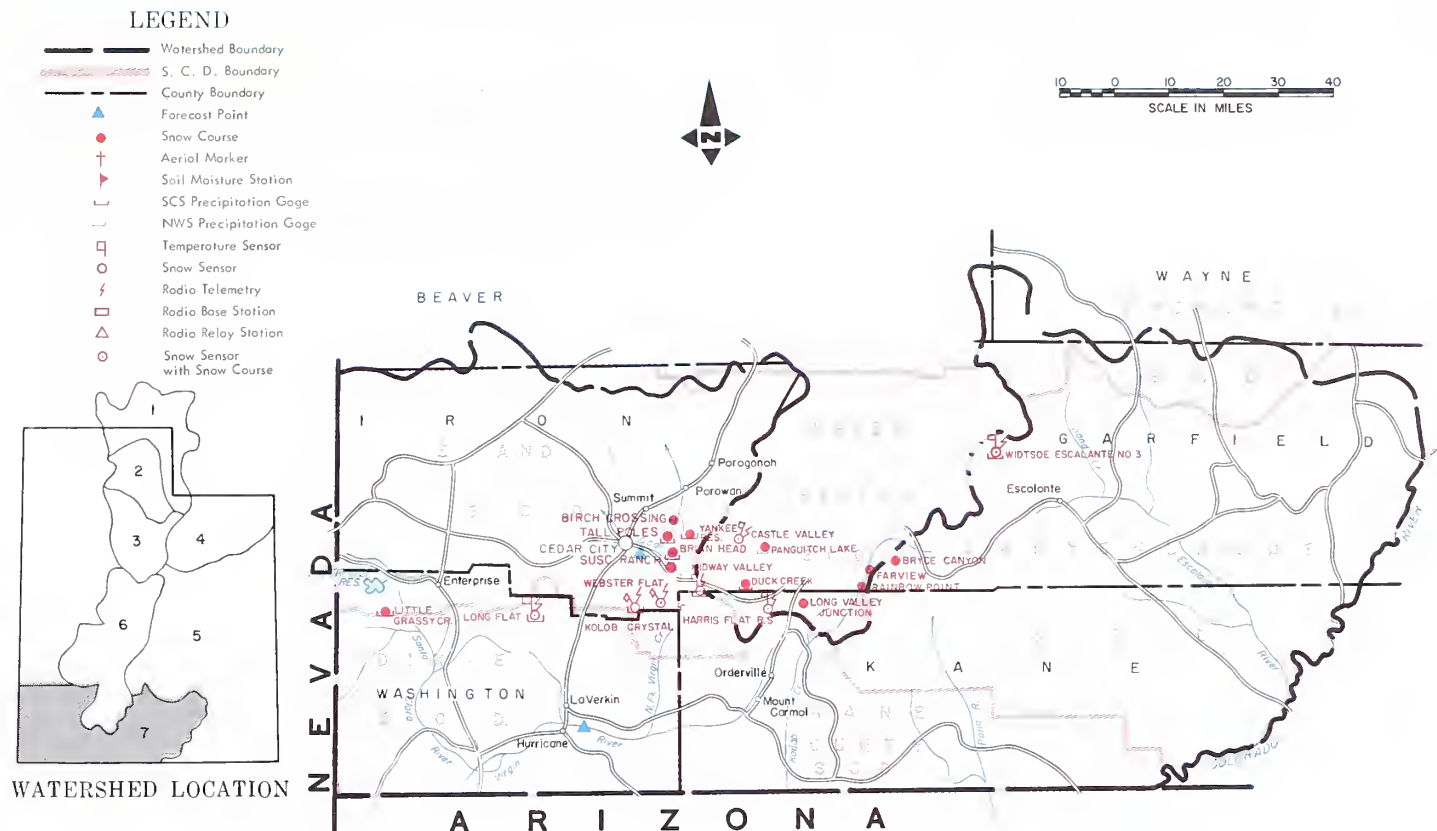


"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



FEBRUARY 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is still well above average with a range of from 156% on Parowan Creek to 199% of the February 1 average on the Virgin River. Coal Creek is 190% and Enterprise-New Harmony is 179% of average.

PRECIPITATION at mountain stations following a drier than normal January is still above average for the October-January period.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 102% of the April-July average for Lake Powell Inflow to 163% of the April-June average for the Santa Clara near Pine Valley. The Virgin River is forecast at 148% of the April-June average and Coal Creek is 162% of the April-July average. Water supplies should be adequate during the irrigation season provided precipitation is near normal through the rest of the winter and spring.

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR		FORECAST	PAST RECORD	
	P. 100 - A. 1	P. 50 - A. 2		THIS YEAR	AVERAGE
VIRGIN RIVER					
Virgin nr Hurricane	72	148	Apr-June	52	48.5
Santa Clara nr Pine Valley	6.7	163	Apr-June	--	4.1
COAL CREEK					
Coal Creek nr Cedar City	27	162	Apr-July	22	17.0
UPPER COLORADO					
Lake Powell Inflow	7100	102	Apr-July	--	6952.0

SUMMARY of SNOW MEASUREMENTS

BASIN, STREAM and or FORECAST POINT	NUMBER of GAGES	THIS YEAR AS A PERCENT OF	
		P. 100 - A. 1	P. 50 - A. 2
COAL CREEK	3	212	190
VIRGIN RIVER	3	238	199
PAROWAN CREEK	4	165	156
ENTERPRISE - NEW HARMONY	2	161	179

1 - Observed flow corrected for change in storage and diversions  
2 - Inflow record as computed by U. S. Bureau of Reclamation  
3 - Provisional flows - Subject to Correction  
a - Partly estimated  
b - Average of all past record - less than 15 years  
e - Maximum mean daily peak flow  
+ - 1963-77 15 year Average Period

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
COLORADO	Lake Powell	25002.0	22408.0	19606.0	--
	Blue Mesa	829.5	538.2	326.0	--

PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOWS (CFS)	
	P. 100 - A. 1	P. 50 - A. 2
Coal Creek nr Cedar City		
Virgin nr Virgin		

SNOW

DRAINAGE BASIN and or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Birch Crossing	1/27	28	7.1	4.5	4.3 <sup>b</sup>
Brian Head	1/30	65	18.3	11.6	12.4 <sup>b</sup>
Harris Flat	1/30	44	10.4	5.2	5.3
Kolob-Crystal	1/30	78	23.6	9.5	13.3 <sup>b</sup>
Little Grassy	1/30	16	3.1	4.1	--
Long Flat	1/30	33	8.2	2.9	4.7

SNOW

DRAINAGE BASIN and or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
Long Valley Junction	1/30	34	8.7	3.4	3.2
SUSC Ranch	1/27	37	10.0	6.2	5.8 <sup>b</sup>
Tall Poles	1/27	46	13.7	8.2	8.5 <sup>b</sup>
Webster Flat	1/30	67	20.8	9.4	10.2
Yankee Reservoir	1/30	38	9.1	5.0	5.7 <sup>a</sup>

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
Federal Bldg. - Room 4012  
Salt Lake City, Utah 84138

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300



POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF AGRICULTURE  
AGR-101



FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"



## SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	1/28	14	2.4	5.0	--	1/28	1.30	--	7.96	--	--
CCC Camp	1/28	32	6.6	11.0	8.6						
Hayden Fork	1/28	32	7.8	13.6	9.6 <sup>b</sup>	1/28	1.99	--	7.62	--	--
Monte Cristo R.S.	1/26	39	12.6	18.9	16.3	1/26	1.96	6.10 <sup>b</sup>	13.66	17.12	80
Salt River Summit	1/27	34	7.8	15.4	11.0	1/27	2.12	4.18	5.30	11.35	47
Stillwater Camp	1/28	26	5.0	10.5	7.2	1/28	1.15	--	7.63	--	--
Lily Lake	1/28	33	7.5	12.8	8.8 <sup>a</sup>	1/28	1.43	--	8.27	--	--
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	1/26	33	9.2	18.8	13.1 <sup>b</sup>	1/26	1.30	--	7.96	--	--
Cub River R.S.	1/27	22	5.5	8.6	6.4						
Emigrant Summit	1/31	54	16.2	24.5	17.0						
Franklin Basin	1/27	40	13.0	21.2	17.8 <sup>a</sup>	2/1	3.80 <sup>a</sup>	--	17.30 <sup>a</sup>	--	--
Garden City Summit	1/26	29	8.8	14.7	11.6	1/26	1.41	4.27	10.66	12.33	86
Klondike Narrows	1/27	35	10.9	17.3	13.0	1/27	2.54	5.49 <sup>b</sup>	13.33	15.41 <sup>b</sup>	86
Little Bear (lower)	1/26	24	7.0	10.4	6.2	--	--	--	--	--	--
Little Bear (upper)	1/26	30	8.0	11.3	8.7 <sup>b</sup>	1/26	1.17	--	16.47	--	--
Slug Creek Divide	1/28	35	9.7	15.5	11.5						
Steep Hollow #1	1/27	64	22.6	33.0	23.3						
Steep Hollow #2	1/27	49	15.7	21.0	17.1						
Tony Grove Lake	1/26	58	19.5	31.8	21.5 <sup>b</sup>	2/1	4.00 <sup>a</sup>	--	18.04 <sup>a</sup>	--	--
Tony Grove R.S.	1/26	26	6.9	12.0	8.6	1/26	1.41	--	9.94	--	--
Willow Flat	1/27	33	9.0	14.2	10.9 <sup>a</sup>	1/27	1.91	5.00 <sup>b</sup>	16.44	15.14	109
OGDEN RIVER											
Beaver Creek-Skunk Creek	1/26	23	7.5	11.0	8.3						
Ben Lomond Peak	1/26	72	25.5	27.0	22.4 <sup>b</sup>						
Ben Lomond Trail	1/26	45	13.4	17.8	12.4 <sup>b</sup>	1/26	1.22	7.56 <sup>b</sup>	20.63 <sup>a</sup>	20.51 <sup>b</sup>	101
Causey Dam						1/26	0.82	2.56 <sup>b</sup>	7.59	9.49	80
Dry Bread Pond	1/26	32	10.0	14.0	12.2 <sup>a</sup>	2/1	1.40 <sup>a</sup>	--	10.70 <sup>a</sup>	16.96 <sup>b</sup>	63
Sagebrush Flat	1/26	14	3.4	6.9	4.1	1/26	1.00	--	6.11	9.49	64
WEBER RIVER											
Beaver Creek R. S.	1/30	24	5.4	8.6	5.9						
Chalk Creek #1	1/28	48	13.6	21.4	13.6 <sup>a</sup>	2/1	2.60 <sup>a</sup>	--	14.40 <sup>a</sup>	--	--
Chalk Creek #2	1/28	35	8.7	13.1	9.7	2/1	1.30 <sup>a</sup>	--	9.10 <sup>a</sup>	--	--
Chalk Creek #3	1/28	23	4.6	7.0	5.4	1/28	0.68	--	8.29	9.44 <sup>b</sup>	88
Farmington Canyon (lower)	1/26	51	15.2	16.6	14.0 <sup>b</sup>	1/26	2.18	5.22 <sup>b</sup>	--	18.36	--
Farmington Canyon (upper)	1/26	60	20.4	23.0	19.5 <sup>b</sup>	1/26	3.00 <sup>a</sup>	--	20.06 <sup>a</sup>	--	--
Farmington G.S.	1/26	41	--	--	--						
Horse Ridge	1/26	38	11.4	18.2	15.0 <sup>a</sup>	1/26	1.57 <sup>a</sup>	--	14.27	--	--
Kilfoil Creek	1/26	31	7.9	12.3	--						
Lost Creek Reservoir	1/26	12	3.0	6.8	--	1/26	0.47	--	5.38	--	--
Park City Summit	1/28	71	26.4	33.0	--						
Parley's Canyon Summit	1/28	46	10.8	14.6	12.7	1/28	2.16	4.31	12.89	14.80	87
Redden Mine (lower)	1/28	40	11.3	14.7	--	1/28	1.71	--	12.14	--	--
Smith & Morehouse	1/28	32	8.5	11.5	8.9	1/28	1.92	3.55	10.38	11.90	87
Hardscrabble	1/26	36	10.6	15.1	--						
Pine Canyon	1/26	34	10.9	13.9	--						
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	1/30	32	6.8	11.8	8.9 <sup>b</sup>	2/1	1.40 <sup>a</sup>	--	10.00 <sup>a</sup>	--	--
Camp Altamont	1/29	50	14.3	13.8	10.2						
Clear Creek Ridge #1	1/26	39	12.0	16.0	11.2 <sup>b</sup>	2/1	1.70 <sup>a</sup>	--	13.70 <sup>a</sup>	--	--
Clear Creek Ridge #2	1/26	35	9.7	13.5	9.6 <sup>b</sup>	1/26	1.18	--	11.39	10.87 <sup>b</sup>	--
Clear Creek Ridge #3	1/26	25	6.0	7.2	5.5						
Dutchman R.S.	1/29	56	15.8	19.0	12.9	1/29	2.50	--	17.15	17.60 <sup>b</sup>	97
Hobble Creek Summit	1/26	37	9.2	13.9	9.6	1/26	1.20	--	13.30	14.47	--
Payson R.S.	1/31	52	13.7	13.4	12.2	2/1	2.90 <sup>a</sup>	3.30	13.98 <sup>a</sup>	12.04	116
Soapstone R.S.	1/30	30	6.2	11.8	8.6	1/30	1.70	3.39	10.15	11.16	91
South Fork R.S.	1/28	33	8.7	7.9	4.5						
Timpanogos Cave Camp	1/28	8	2.6	2.8	2.3						
Timpanogos Divide	1/29	68	20.7	20.0	16.9	1/29	2.45	4.97	21.40	17.43	123
Trial Lake	1/30	57	14.8	22.8	15.6	1/30	2.53	4.71	16.47	16.20	102

# SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
JORDAN RIVER & GREAT SALT LAKE											
Lamb's Canyon #2	1/28	42	10.2	16.4	11.1 <sup>a</sup>	1/28	1.78	--	10.20	--	--
Middle Canyon	1/30	47	12.8	8.6	9.2	Vandalized		2.71 <sup>b</sup>	--	9.74	--
Mill Creek	1/26	42	11.2	15.4	--						
Mill D South Fork	1/27	43	12.6	19.0	13.2						
Mt. Dell Dam								2.16	--	9.73	--
Rocky Basin-Settlement	2/3	73	24.6	19.1	--	2/3	--	--	14.92	--	--
Silver Lake (Brighton)	1/27	53	16.8	24.2	15.8						
Snow Bird (Gad Valley)	1/26	82	31.0	30.9	23.6 <sup>a</sup>						
Vernon Creek	1/30	44	11.8	8.4	7.5 <sup>b</sup>	1/30	2.75	--	14.95	--	--
Desert Peak	2/3	65	19.9	21.8	--						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Black's Fork G.S.-East Fork	1/28	21	4.1	8.6	--	1/28	1.09	--	7.07	--	--
Black's Fork Junction	1/28	24	4.2	8.1	--	1/28	1.01	--	--	--	--
Burnt Creek	1/28	18	4.9	2.5	--	1/28	0.34	1.60 <sup>b</sup>	6.60	6.09 <sup>b</sup>	108
Grizzly Ridge	1/28	36	10.3	5.2	--	1/28	0.30	2.44 <sup>b</sup>	11.90	8.75 <sup>b</sup>	136
Hewinta G.S.	1/28	24	4.9	8.5	--	1/28	1.33	--	7.71	--	--
Hickerson Park	1/28	24	4.9	4.3	--	1/28	0.53	--	6.52	--	--
King's Cabin (upper)	1/29	36	9.8	7.5	7.5	1/29	0.56	--	9.61	9.24	104
Spirit Lake	1/28	35	9.3	10.3	--	1/28	0.88	--	10.55	--	--
Steel Creek Park	1/28	44	10.5	14.7	9.4 <sup>a</sup>	1/28	1.48	--	7.06	--	--
Trout Creek	1/29	38	10.6	6.6	5.3 <sup>a</sup>	1/29	0.55	--	10.45	--	--
DUCHESNE RIVER											
Brown Duck Ridge	1/30	58	16.1	18.5	9.5 <sup>a</sup>	1/30	1.38	--	12.04	--	--
Chepeta	1/28	44	10.9	11.4	--	2/1	1.00 <sup>a</sup>	--	10.30 <sup>a</sup>	--	--
Curraunt Creek	1/26	32	7.7	8.4	7.3 <sup>b</sup>	1/26	0.92	--	9.20	--	--
Daniels-Strawberry Summit	1/26	38	10.8	12.5	10.0	1/26	1.43	3.59	11.97	12.03	100
East Portal	1/31	36	7.0	13.3	7.4	1/31	2.11	3.34	11.71	11.14	105
Indian Canyon	1/26	41	10.7	11.8	8.0	1/26	1.34	2.41	11.27	8.69	130
Jackson Park	1/29	43	12.1	11.3	7.4 <sup>a</sup>	1/29	0.92	--	10.94	--	--
Lakefork Mountain #1	1/29	38	9.3	9.0	6.8	1/29	0.95	--	9.91	8.68	114
Lakefork Mountain #3	1/29	26	5.8	4.5	4.2 <sup>b</sup>						
Mosby Mountain	1/29	35	9.0	6.6	6.3	1/29	0.69	2.28 <sup>b</sup>	10.91	8.87	123
Paradise Park	1/29	45	12.5	11.4	8.3	1/29	0.86	2.39 <sup>b</sup>	--	9.36	--
Rock Creek Ranch	1/29	26	6.3	6.1	3.7 <sup>a</sup>	1/29	2.20	--	9.71	--	--
Strawberry Divide	1/31	49	12.2	18.3	12.4	2/1	2.40 <sup>a</sup>	--	14.80 <sup>a</sup>	--	--
PRICE RIVER											
Dry Valley Divide Alternate	1/26	25	5.5	9.2							
Mud Creek	1/27	39	9.3	13.4	8.8	1/27	1.26	2.70	6.70	9.20	73
White River #1	1/26	37	9.2	12.1	8.6 <sup>a</sup>	1/26	1.36	--	9.79	--	--
White River #3	1/26	24	5.8	8.7	5.9 <sup>a</sup>						
SAN RAFAEL RIVER											
Buck Flat	1/28	59	15.5	15.2	10.2	1/28	3.03	--	13.47	11.29 <sup>b</sup>	119
Huntington-Horseshoe	1/27	53	18.5	22.5	14.8 <sup>b</sup>						
Orange Olsen	1/27	30	5.9	5.7	--	1/27	1.60	--	14.20	--	--
Red Pine Ridge	1/27	47	13.0	16.0	10.7	2/1	2.30 <sup>a</sup>	--	14.40 <sup>a</sup>	12.77	113
Seeley Creek R.S.	1/27	47	13.3	10.9	9.3 <sup>b</sup>	2/1	2.70 <sup>a</sup>	--	9.50 <sup>a</sup>	--	--
Stuart R.S.	1/27	28	6.1	9.1	--	1/27	1.12	--	6.70	--	--
Upper Joe's Valley	1/27	37	8.3	9.7	6.6						
Wrigley Creek	1/28	41	9.2	10.7	6.4						
MUDDY RIVER											
Black's Fork	1/28	46	10.8	12.8	7.7 <sup>a</sup>						
Dill's Camp	1/28	46	10.2	10.9	7.0 <sup>a</sup>	1/28	2.83	--	12.63	--	--

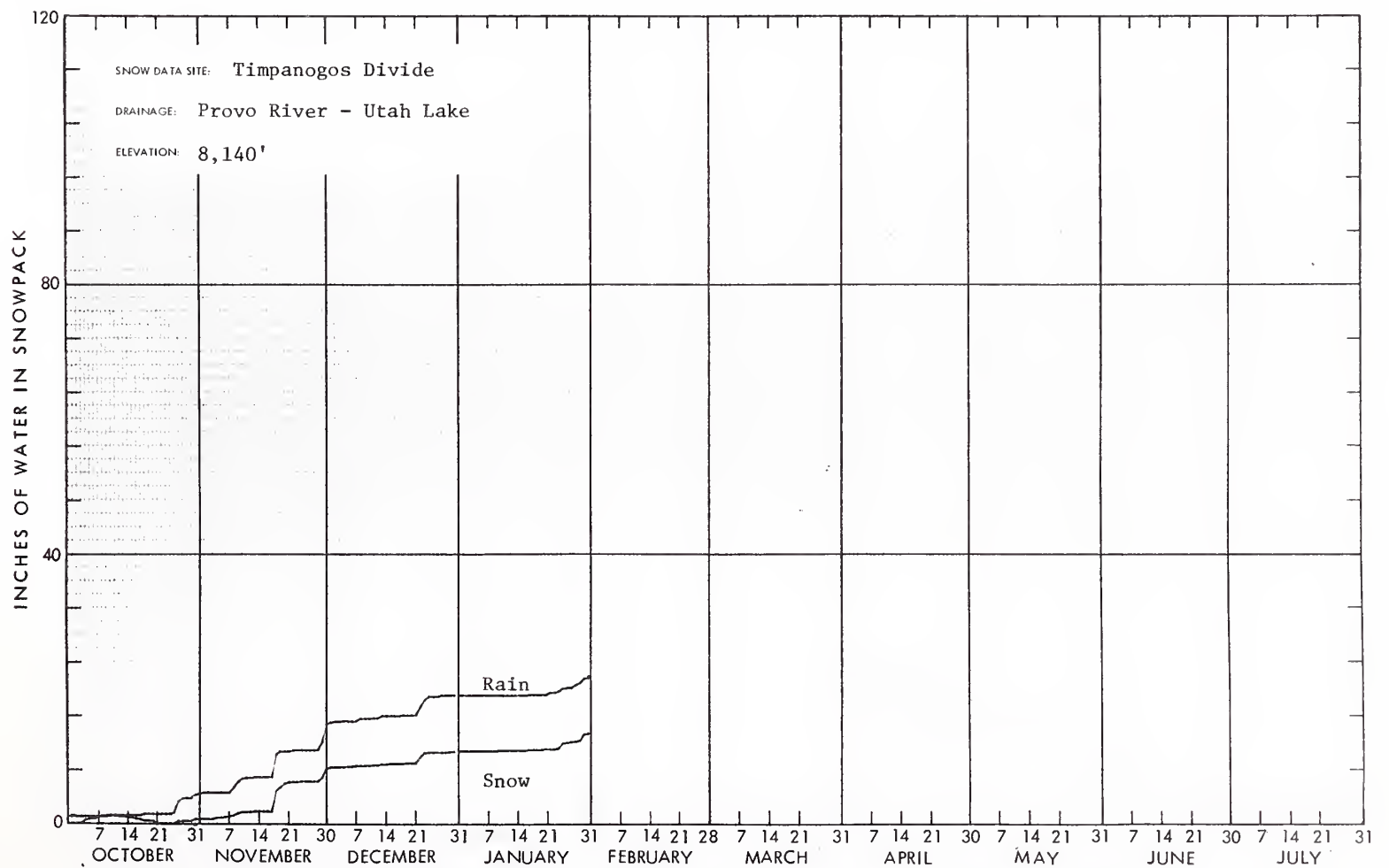
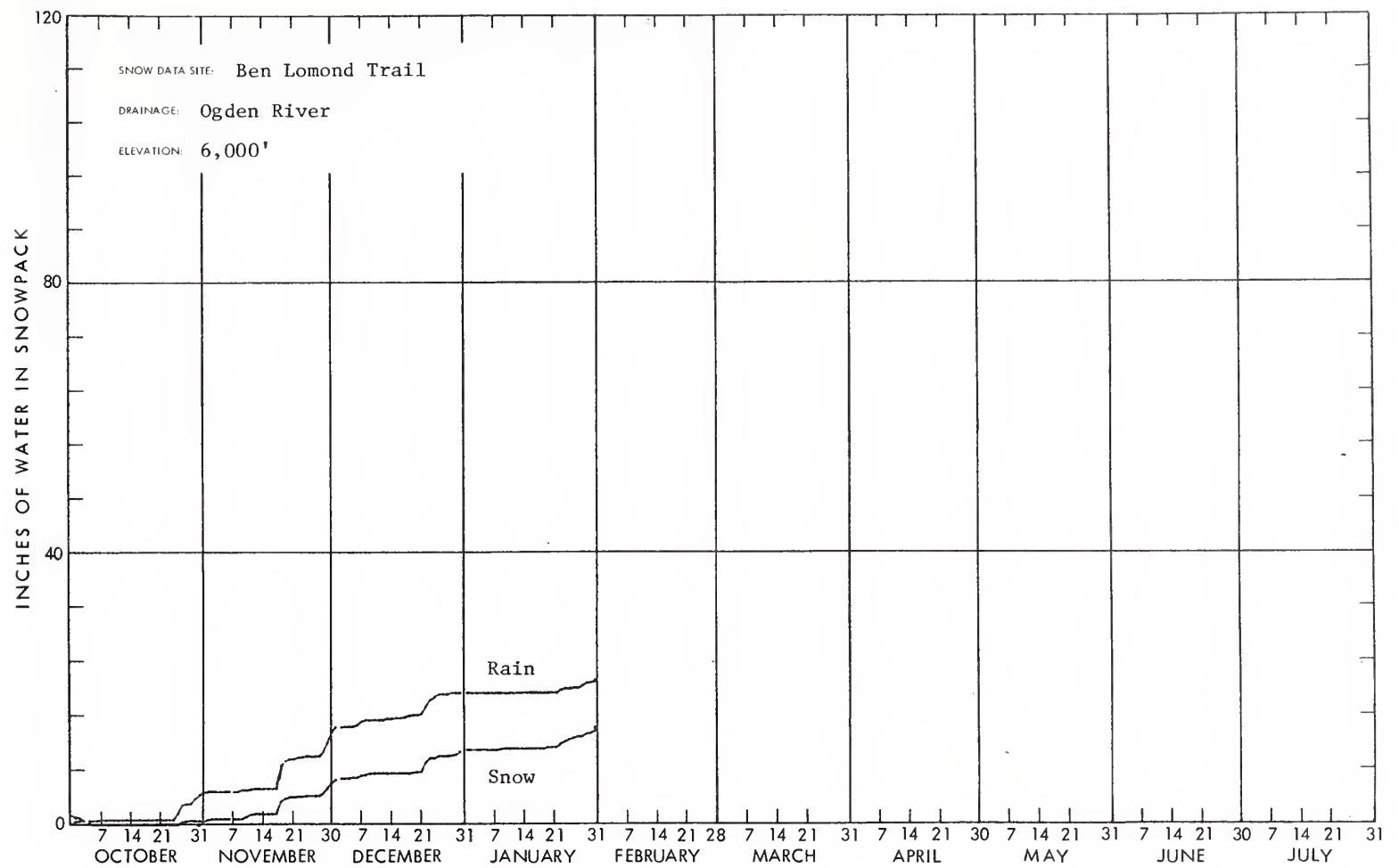
# SNOW

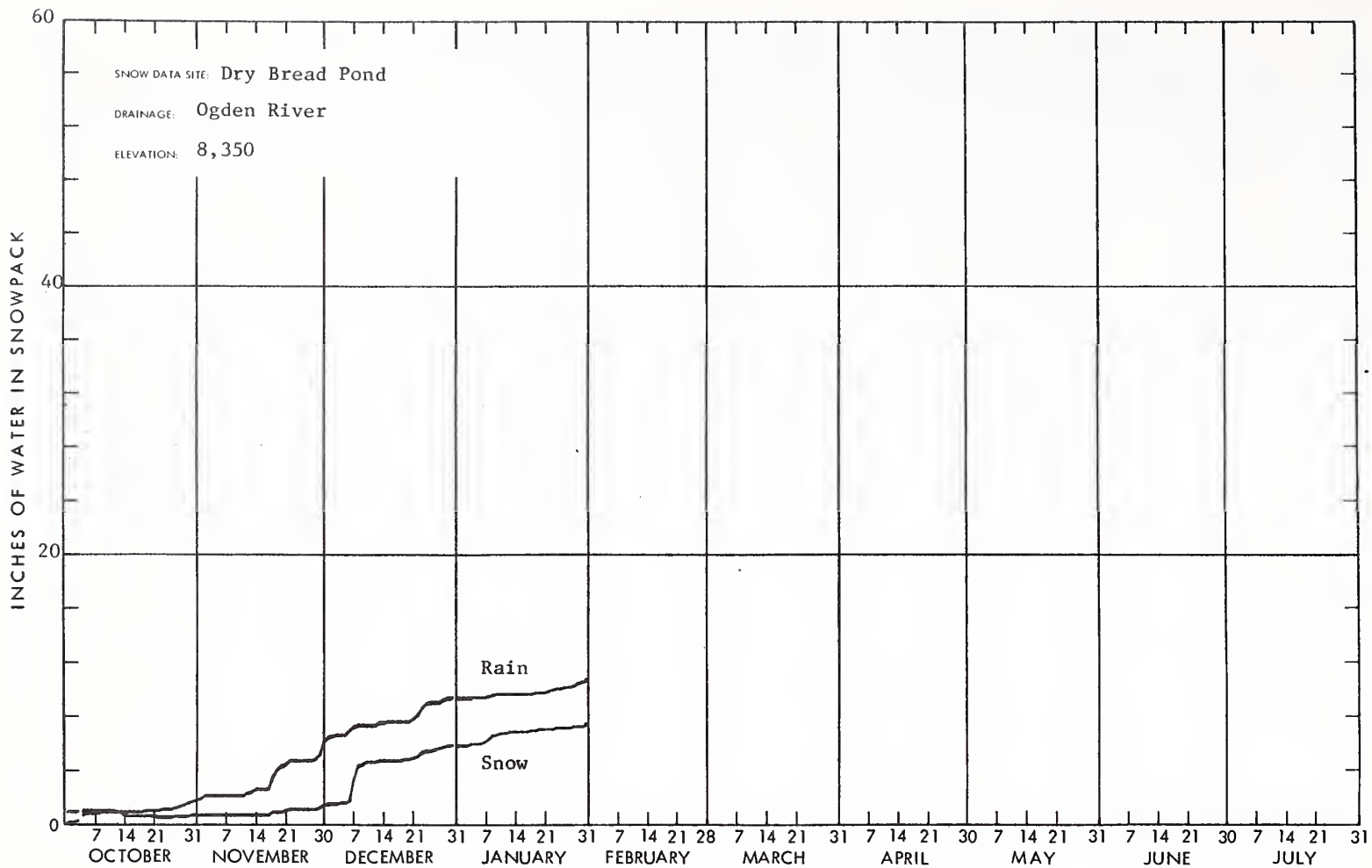
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)			FROM APPROX OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			This Year	Average †	Percent of Average
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †			
FREMONT RIVER											
Black's Flat-U.M. Creek	1/29	34	8.1	8.0	6.9	1/29	1.46	--	7.01	--	--
Fish Lake	1/29	33	8.0	5.7	5.2	1/29	0.95	1.33 <sup>b</sup>	5.75	6.35	91
Johnson Valley	1/29	28	6.0	5.9	4.3						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	1/28	42	10.9	5.5	7.1 <sup>a</sup>	1/28	1.40	--	13.70	--	--
Camp Jackson	1/28	46	13.2	6.6	7.3 <sup>a</sup>	1/28	1.70	--	14.80	--	--
LaSal Mountain (lower)	1/27	38	9.6	4.0	5.4 <sup>a</sup>						
LaSal Mountain (upper)	1/27	53	15.1	10.0	8.6 <sup>a</sup>	1/27	1.80	--	13.95	--	--
Monticello City Park	--	--	--	0.5	--						
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	1/31	47	11.8	10.9	7.8	1/31	2.49	--	12.69	--	--
Bryce Canyon	1/29	31	6.8	3.9	3.0						
Castle Valley	1/30	53	13.9	7.1	7.5 <sup>a</sup>	1/30	2.67	--	13.52	--	--
Duck Creek R.S.	1/30	58	15.2	7.4	8.0	1/30	3.61	2.87	21.04	10.90	193
Harris Flat	1/30	44	10.4	5.2	5.3	2/1	2.30 <sup>a</sup>	--	11.60 <sup>a</sup>	--	--
Kimberly Mine	1/31	41	10.6	10.6	9.5 <sup>b</sup>	1/31	1.81	3.31 <sup>b</sup>	--	11.20	--
Midway Valley	1/30	80	23.7	10.1	12.7	2/1	4.20 <sup>a</sup>	--	23.90 <sup>a</sup>	--	--
Panguitch Lake	1/30	32	9.0	3.2	2.7 <sup>a</sup>	1/30	1.44	--	8.94	--	--
Squaw Springs	1/31	32	7.4	5.4	4.5 <sup>a</sup>						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	1/28	39	8.7	8.6	7.4 <sup>a</sup>	1/28	3.62	--	12.07	--	--
Farnsworth Lake	1/29	47	13.2	14.5	11.8	1/29	2.69	3.09	6.69	11.64	57
G.B.R.C. Headquarters	1/27	47	12.4	11.0	9.8	1/27	3.18	2.98	13.55	11.52	118
G.B.R.C. Majors						--	--	1.42	--	5.65	--
G.B.R.C. Meadows	1/27	63	19.7	21.0	13.5	1/27	3.21	3.84	13.11	13.98	94
G.B.R.C. Oaks						--	--	2.02	--	7.82	--
Gooseberry R.S.	1/29	32	8.0	7.3	7.4	1/29	1.66	2.45 <sup>b</sup>	9.31	7.49 <sup>b</sup>	124
Mammoth-Cottonwood Creek	1/27	52	15.3	18.9	13.2	2/1	1.80 <sup>a</sup>	3.84	12.30 <sup>a</sup>	12.34	100
Mt. Baldy R.S.	1/28	72	20.3	23.4	14.8 <sup>a</sup>	1/28	3.45	--	11.62	--	--
Oak Creek	1/31	52	14.4	6.8	--	1/31	2.44	--	9.11	--	--
Pickle Keg Springs	1/28	52	13.4	12.4	10.5	2/1	4.00 <sup>a</sup>	--	16.50 <sup>a</sup>	--	--
Pine Creek	1/31	54	16.2	11.2	8.8 <sup>a</sup>	1/31	3.55	--	16.33	--	--
Ree's Flat	1/31	52	12.9	11.1	--						
Shingle Mill	1/27	29	7.7	6.9	5.7	1/27	1.64	2.10 <sup>b</sup>	12.07	10.25	118
Gooseberry Reservoir						1/27	2.06	3.71	14.25	12.09	118
BEAVER RIVER											
Beaver Canyon Power House						--	--	1.23	--	5.45	--
Beaver Race Track	1/28	1	0.3	0.4	--						
Big Flat	1/31	54	15.1	14.2	10.0	1/31	2.87	--	12.24	9.93	123
Merchant's Valley (upper)	1/31	47	12.6	8.9	7.5 <sup>b</sup>	1/31	2.59	--	13.44	9.18 <sup>b</sup>	146
Otter Lake	1/31	46	12.1	9.7	7.5						
PAROWAN CREEK											
Birch Crossing	1/27	28	7.1	4.5	4.3 <sup>b</sup>						
Brian Head	1/30	65	18.3	11.6	12.4 <sup>b</sup>						
Tall Poles	1/27	46	13.7	8.2	8.5 <sup>b</sup>	1/27	1.30	2.20 <sup>b</sup>	10.90	9.48 <sup>b</sup>	115
Yankee Reservoir	1/30	38	9.1	5.0	5.7 <sup>a</sup>	1/30	1.35	--	9.80	--	--
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	1/30	16	3.1	4.1	1.6 <sup>a</sup>						
Long Flat	1/30	33	8.2	2.9	4.7	2/1	1.50 <sup>a</sup>	--	10.40 <sup>a</sup>	--	--
COAL CREEK											
Cedar City Golf Course	1/27	1	0.1	0.0	--						
SUSC Ranch	1/27	37	10.0	6.2	5.8 <sup>b</sup>						



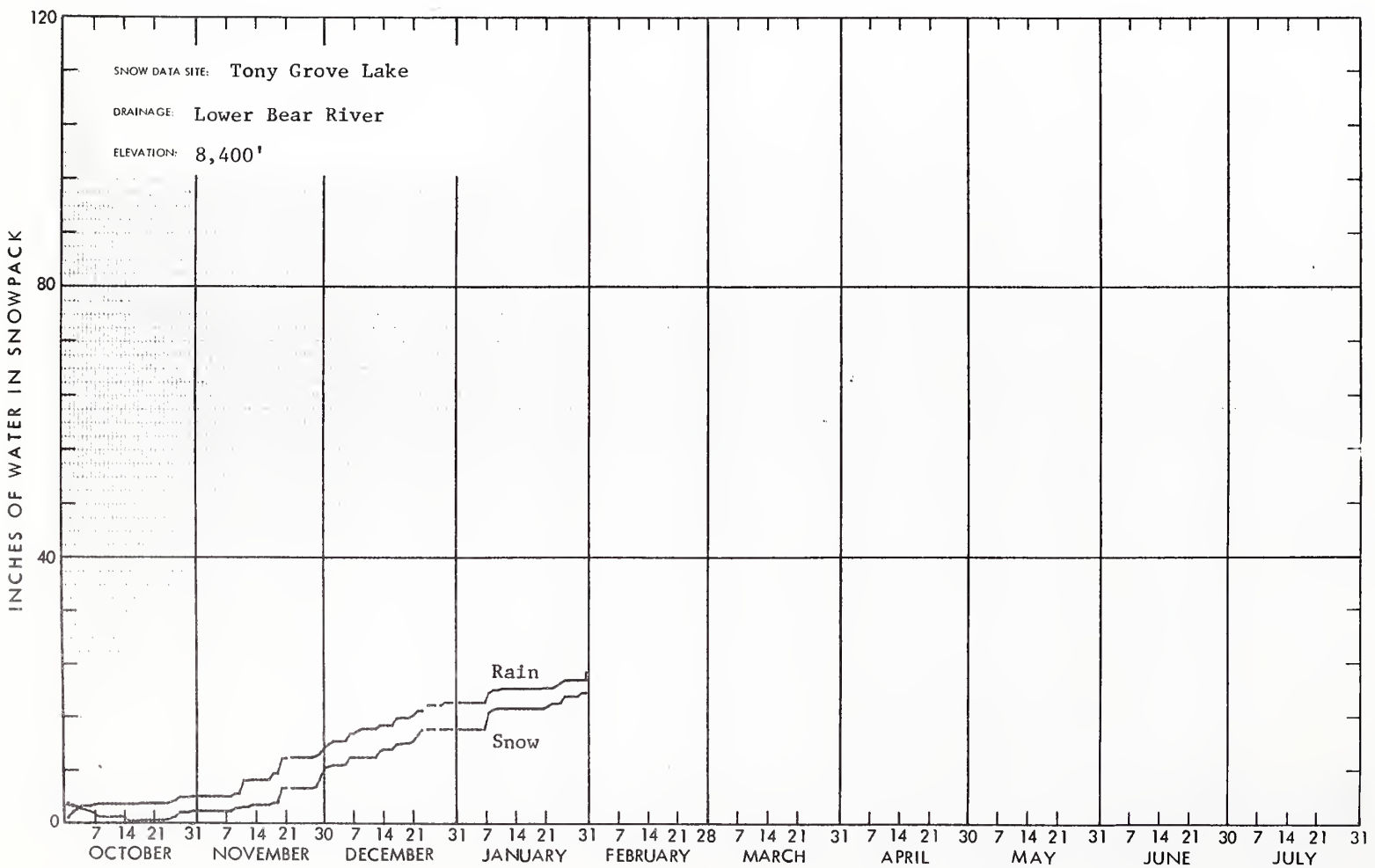
# SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
ESCALANTE RIVER											
Widtsoe-Escalante #3	1/29	44	9.5	8.2	6.4	1/29	2.63	1.58	7.86	7.59	104
VIRGIN RIVER											
Kolob-Crystal	1/30	78	23.6	9.5	13.3 <sup>b</sup>	2/1	4.40 <sup>a</sup>	--	21.90 <sup>a</sup>	--	--
Long Valley Junction	1/30	34	8.7	3.4	3.2						
Webster Flat	1/30	67	20.8	9.4	10.2	1/30	4.73	3.48	18.03	11.62	155
a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading											

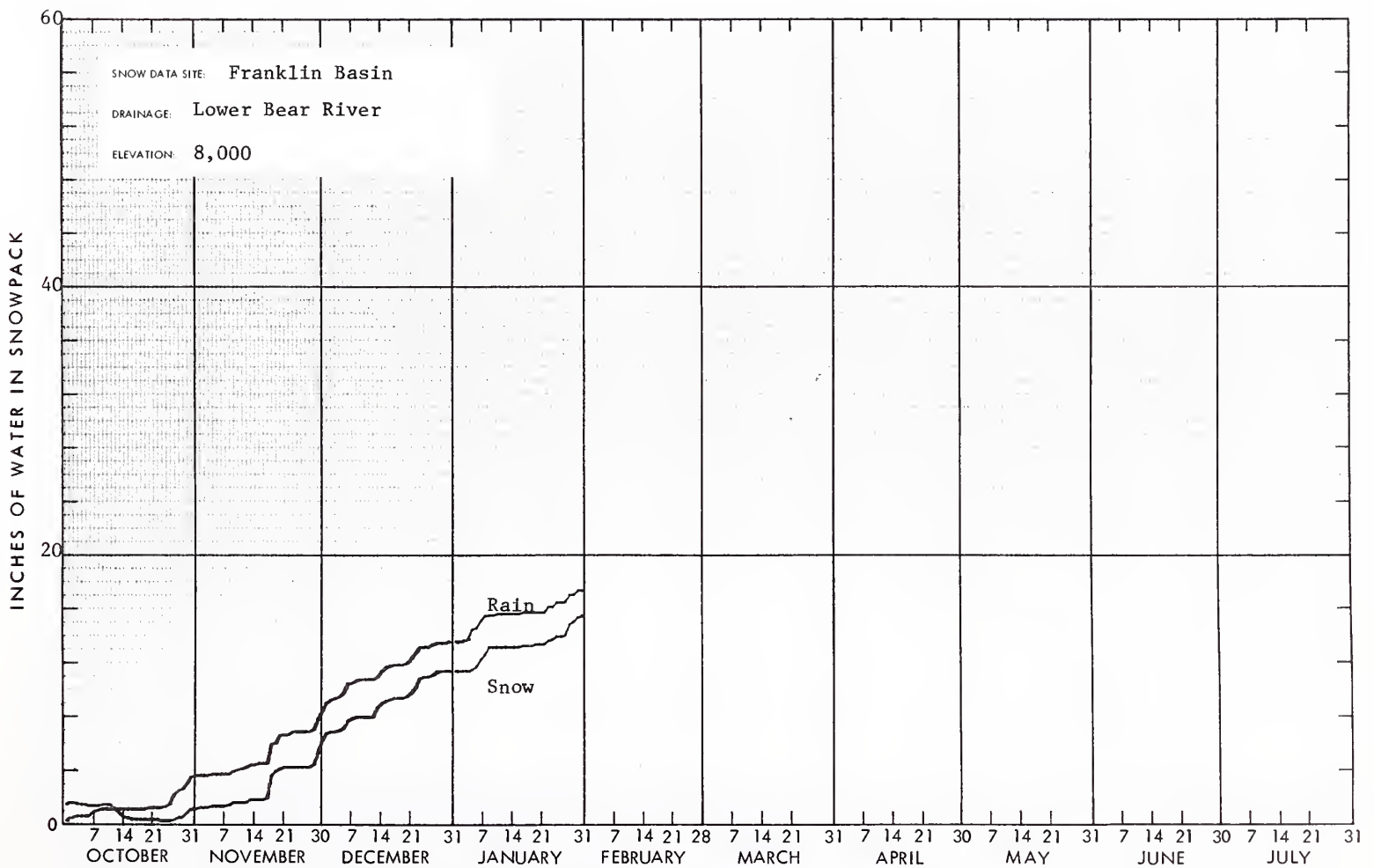
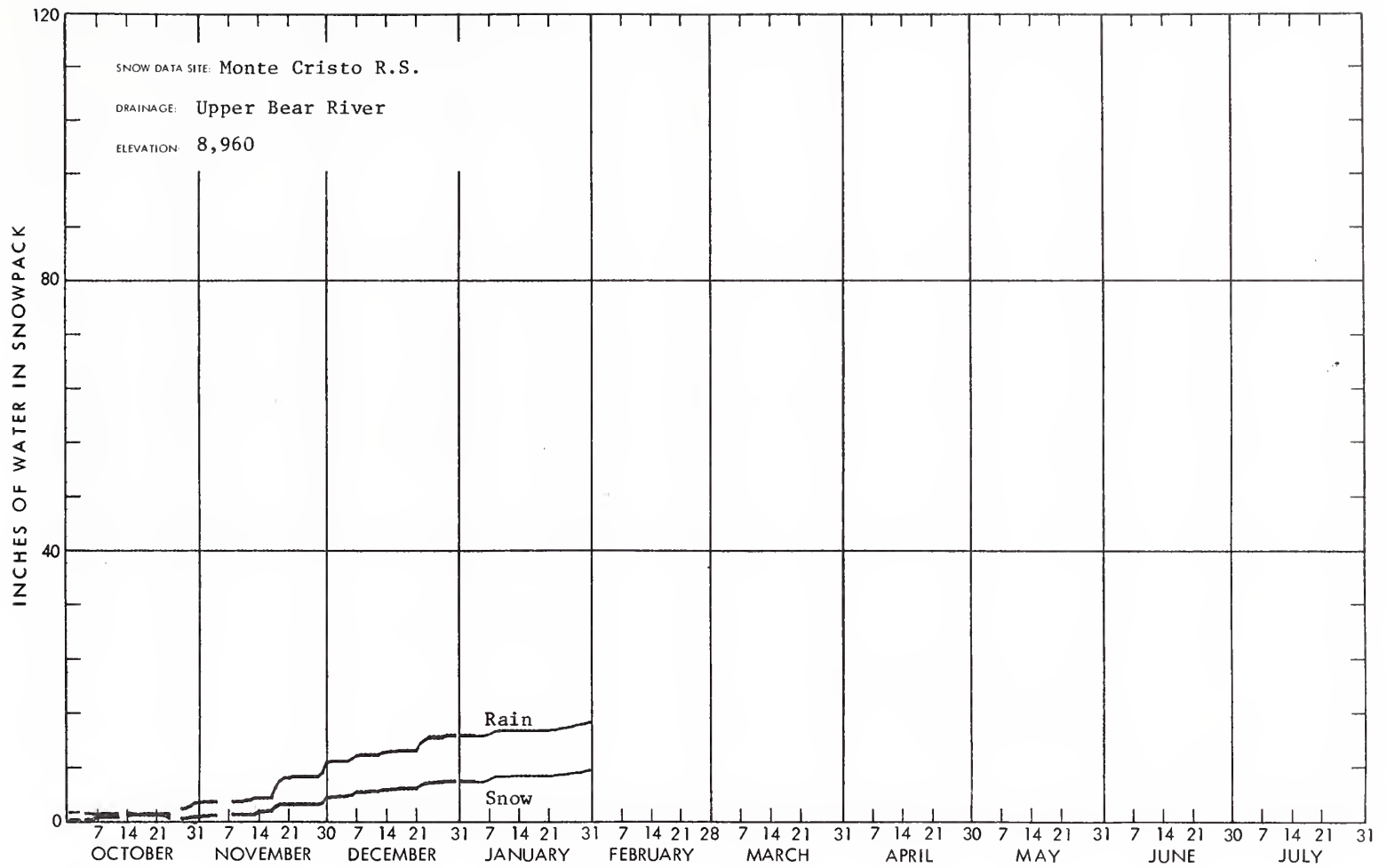


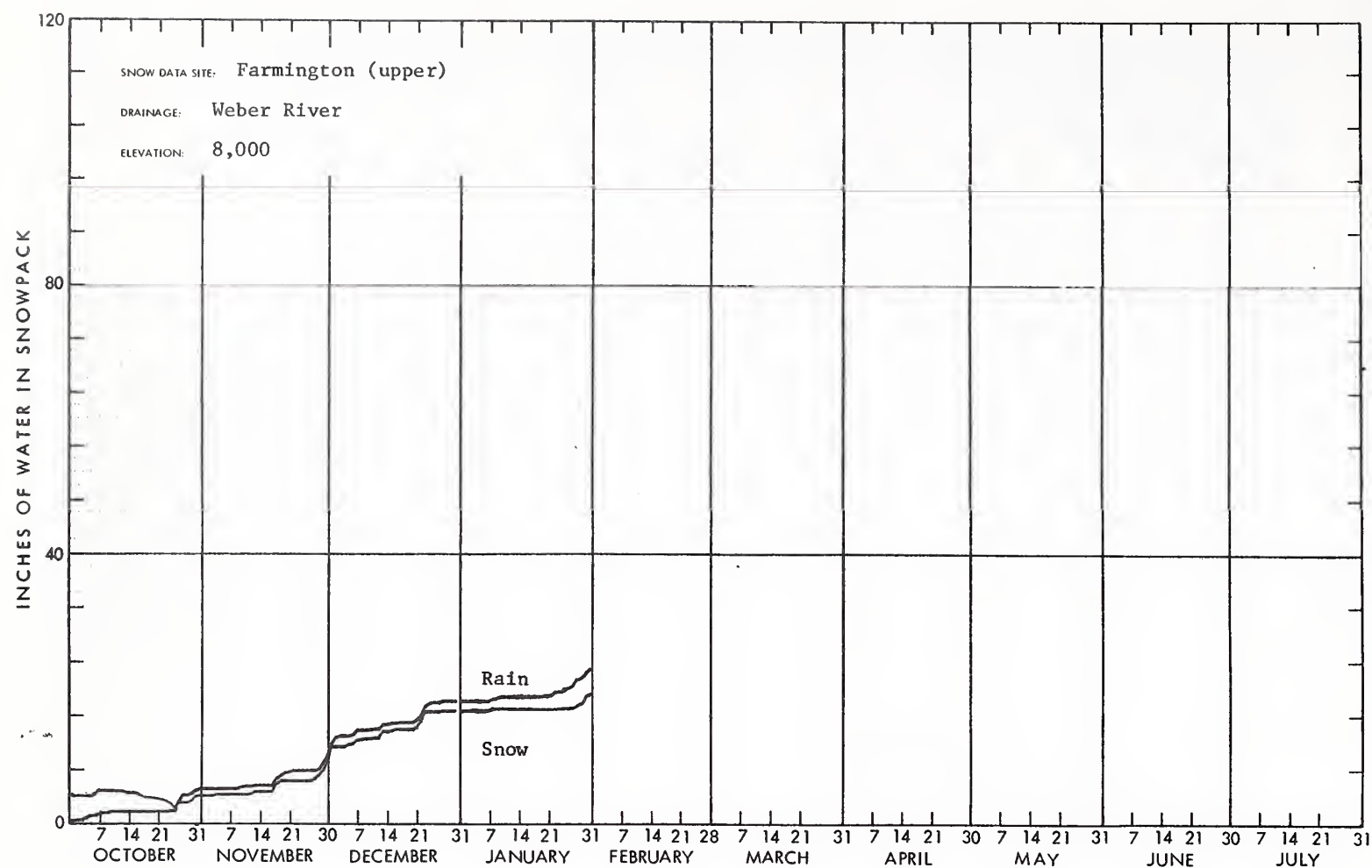


WSFB-X13D

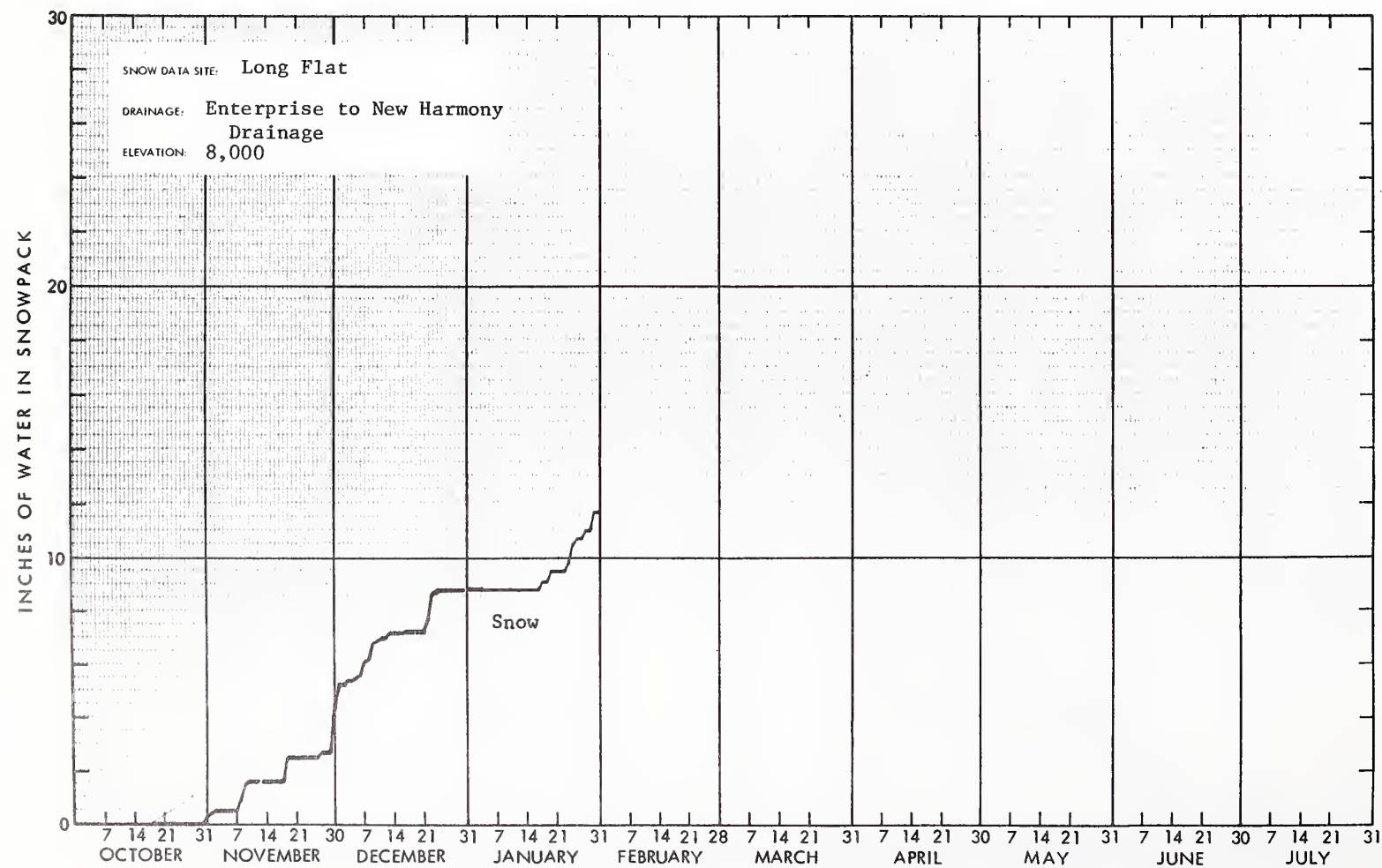


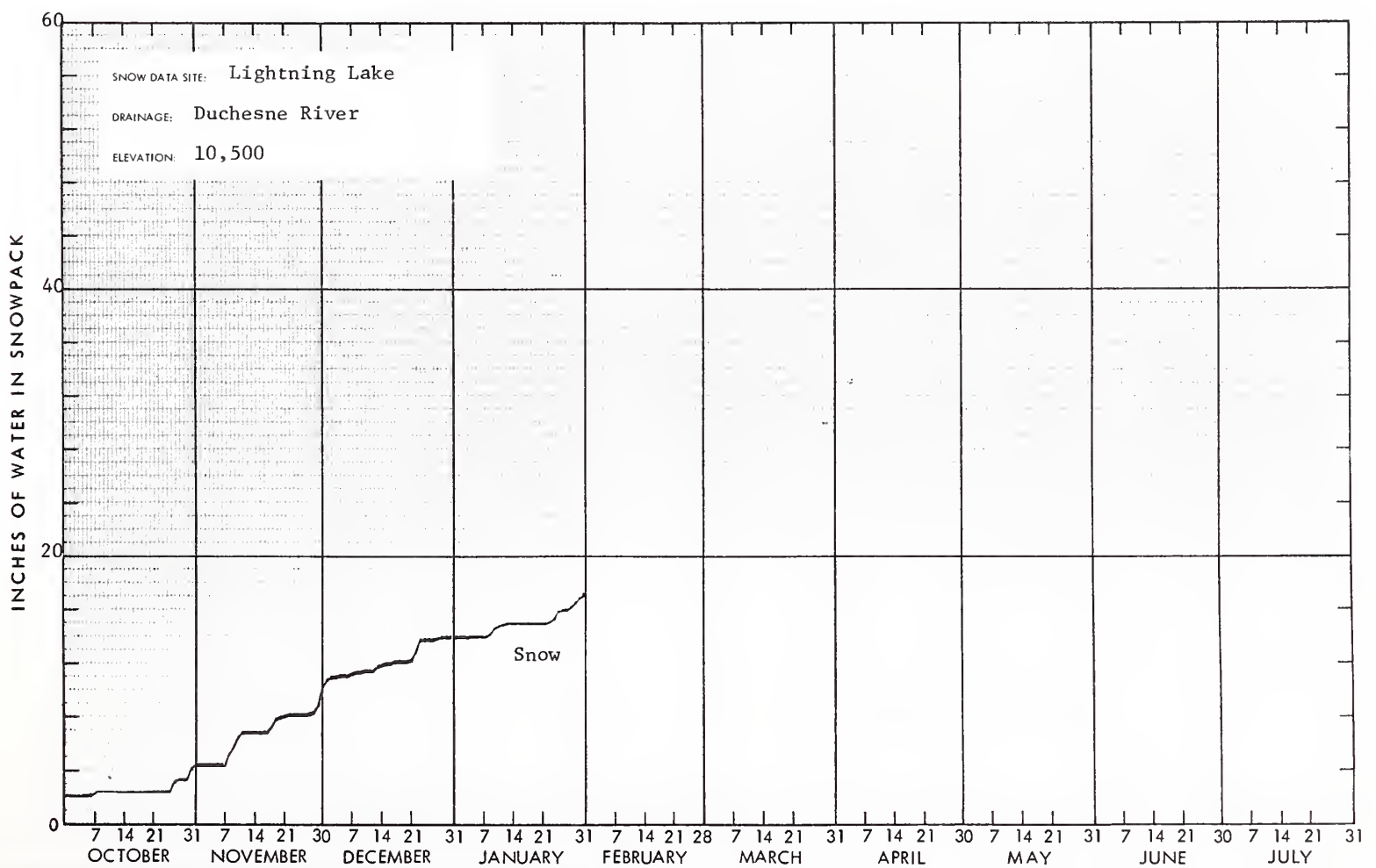
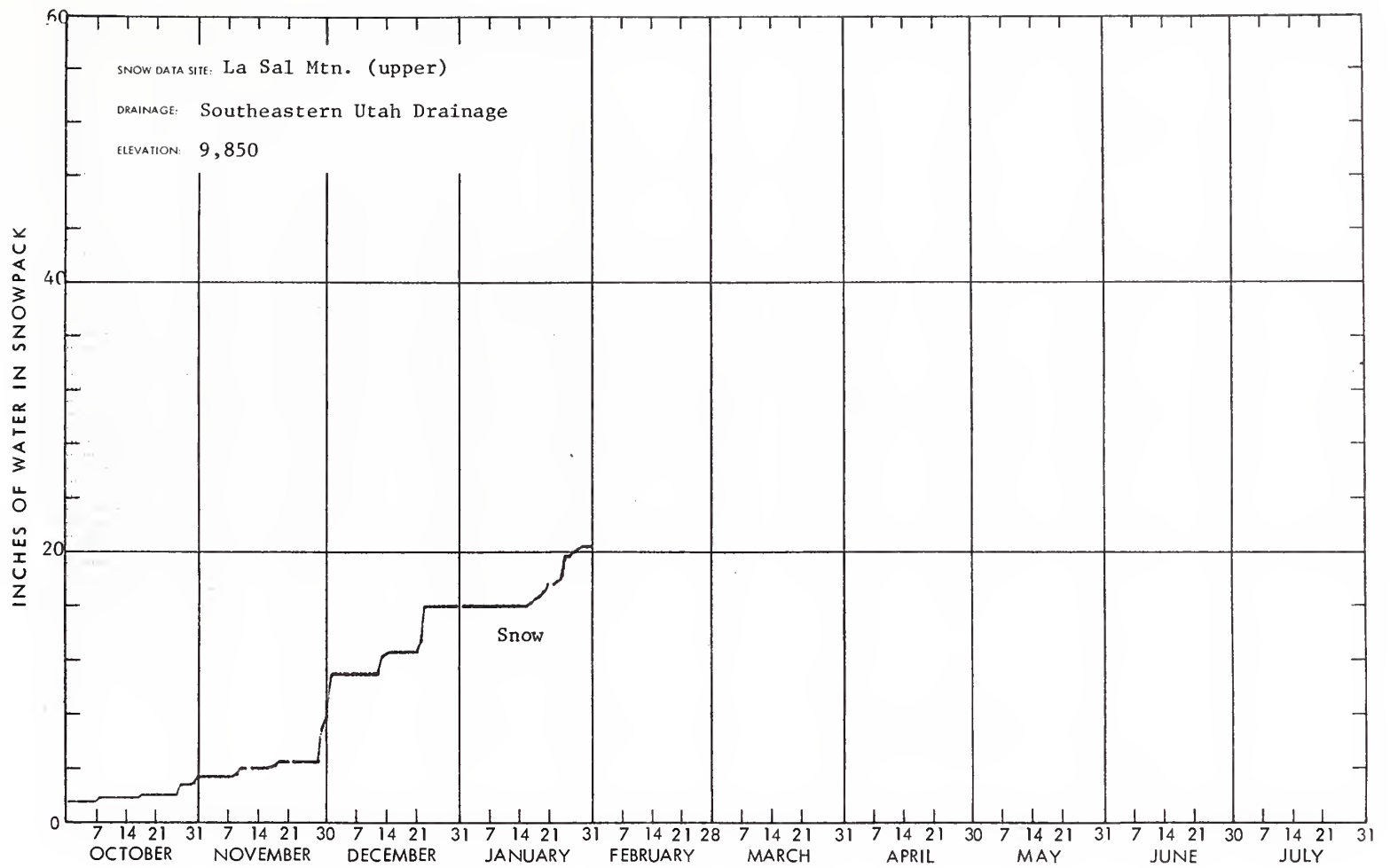




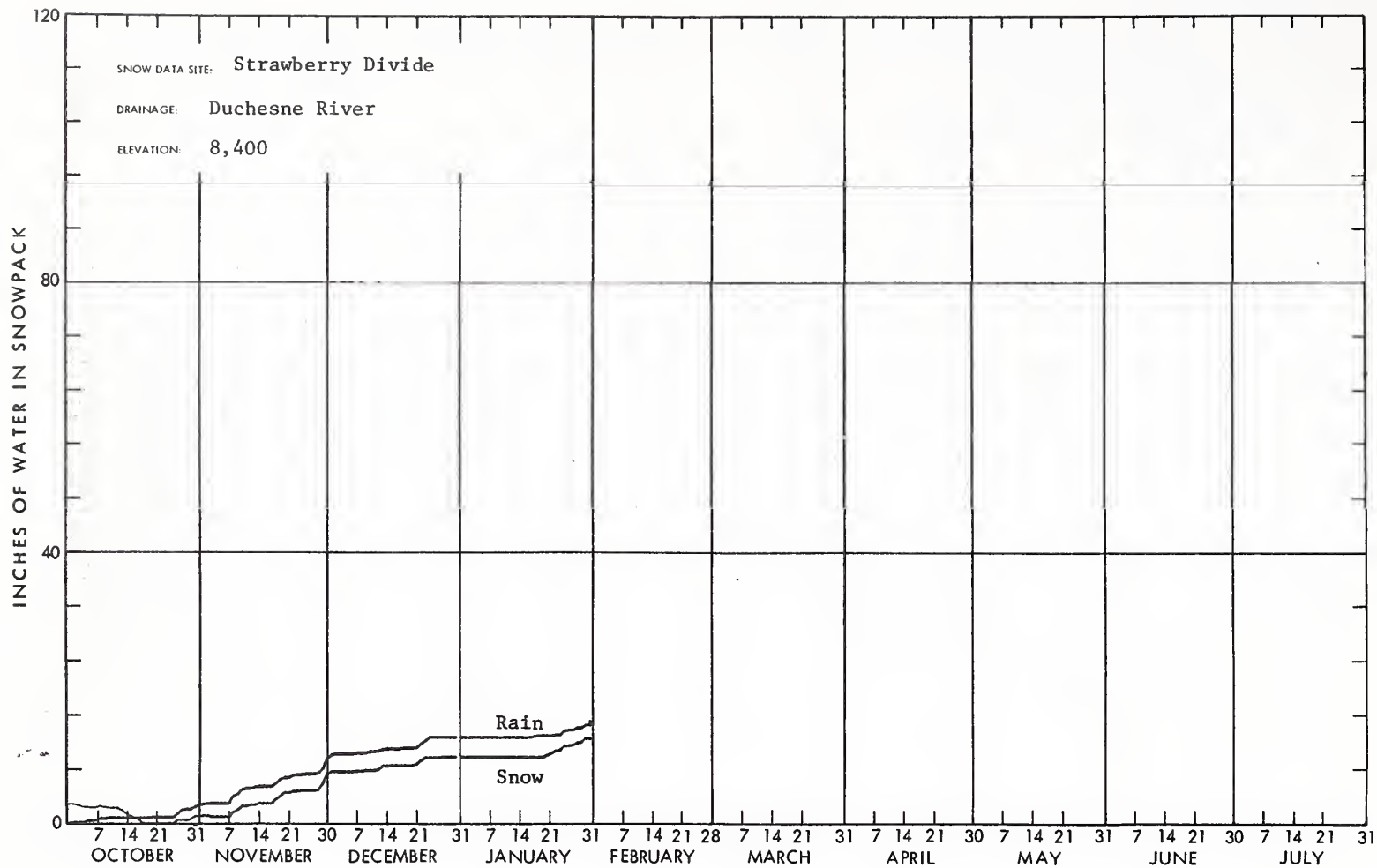


WSFB-X13B

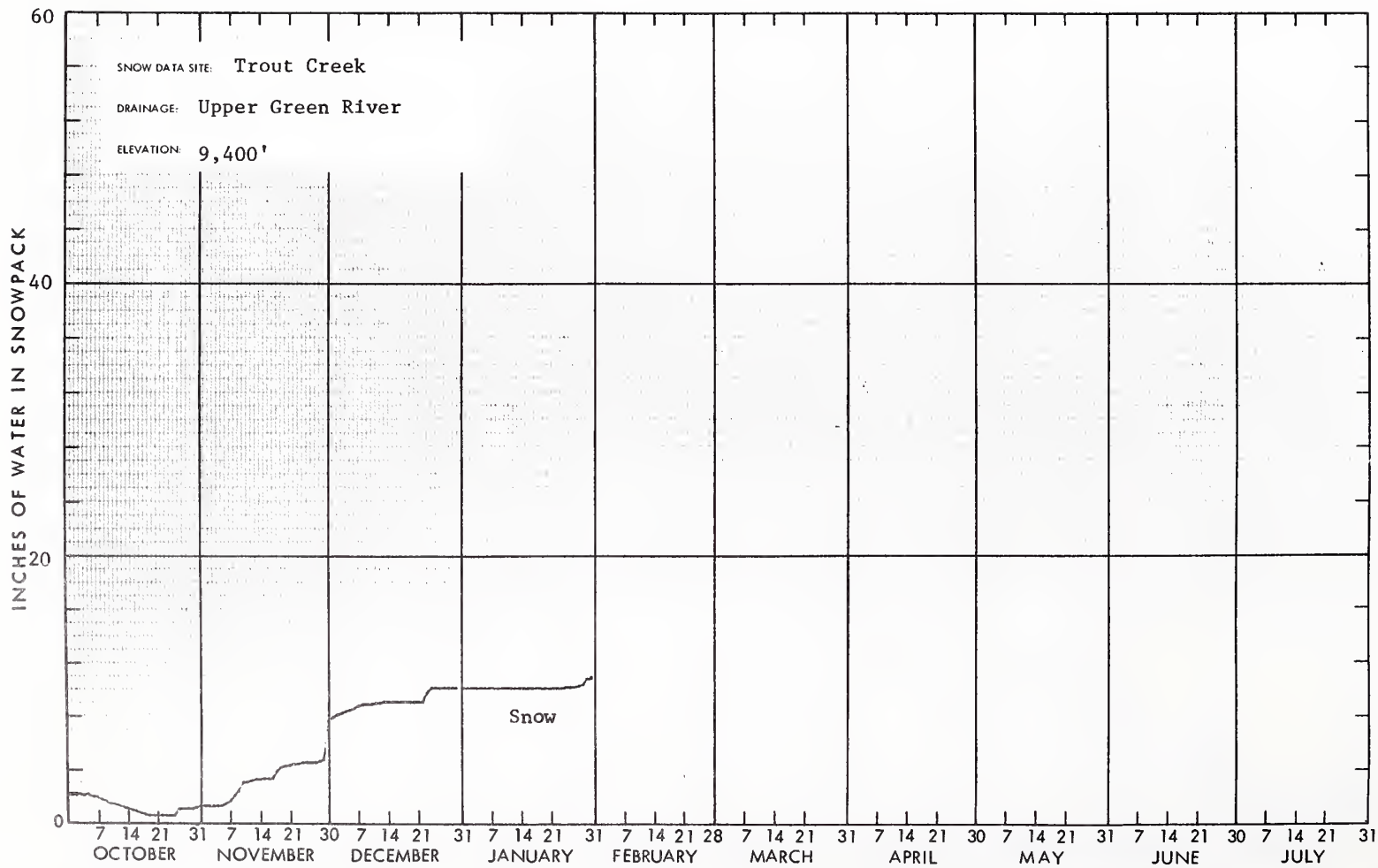


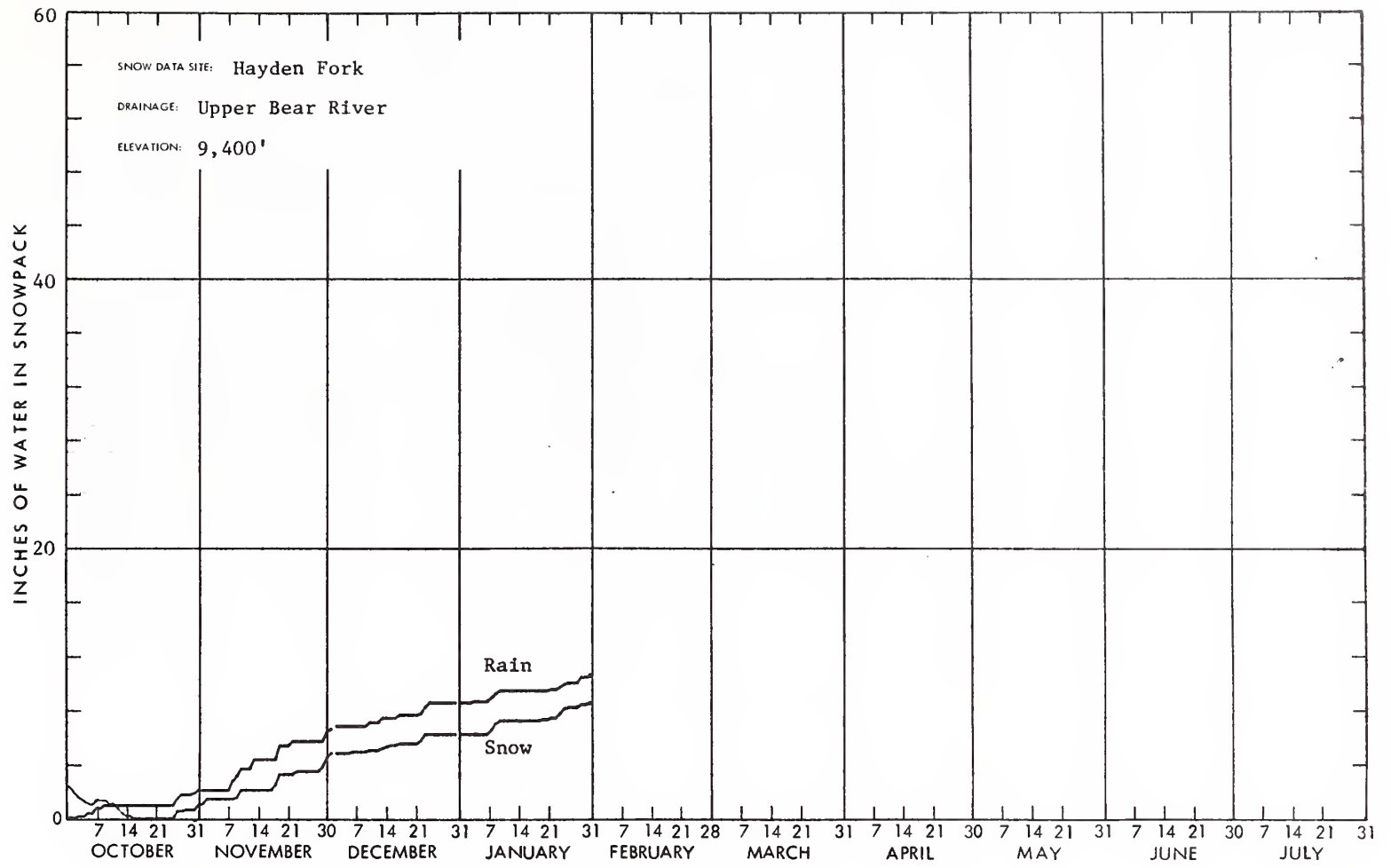






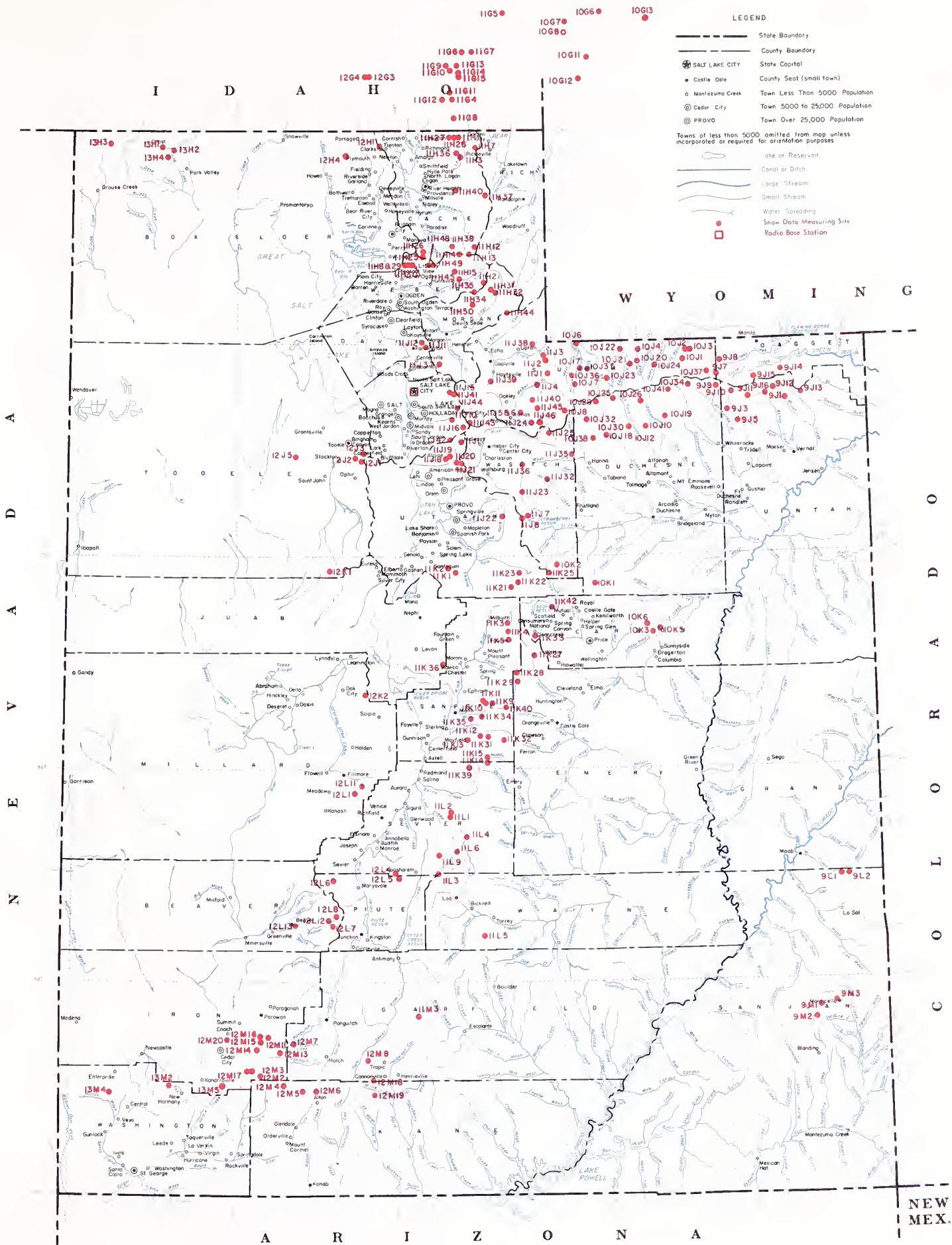
WSFB-X13D











INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO	STATE	NAME	SEC	TWP	RGE.	ELEV.	NO.	STATE	NAME	SEC	TWP	RGE.	ELEV.	(continued)
UPPER BEAR RIVER (above Hater, Idaho)														
10G11	W	Big Park	7	27N	117W	8,700	11J25P	U	Soapstone R.S.	9	3S	8E	7,800	9J1PST
10L6P		Burt's-Miller Ranch	19	3N	10E	7,900	11J19	U	South Fork R.S.	24	4S	2E	6,100	10J37P
10G7	W	CCC Camp x	29	29N	118W	7,500	11J18	U	Timpanogos Cave Camp	27	4S	2E	5,500	10J2
10J36p	U	Gold Hill	15	11N	9E	10,000	11J21PST	U	Timpanogos Divide	33	4S	3E	8,140	9J10aP
10J72	W	Hayden Fork	43	26N	118E	9,400	10J8PST	U	Trial Lake	5	2S	9E	9,960	9J7P
10G12	U	Kelly Lake	10E	8,200									10J20PST	
10J35	W	Leahy Ranger Station	34	2N	10E	9,650							9J10PST	
11H12PST	U	Monie Cratio R.S.	4	8N	4E	8,960							9J12ap	
10G6	W	Pojan Meadows x	29	30N	116W	8,900								
10G8P	W	Salt River Summit x	32	29N	118W	7,900								
10G13MP	W	Snyder Basin x	15	29N	115W	8,400								
10J17P	U	Stillwater Camp	32	2N	10E	8,550								
LOWER BEAR RIVER (below Hater, Idaho)														
11H37pST	U	Bug Lake	18	11N	5E	7,950	12J2	U	Bevan's Cabin	24	4S	4W	6,450	
11G11	U	Christensen Ranch	27	13S	41E	5,600	12J5P	U	Deseret Peak	33	4S	7W	7,500	
11H39p	U	Climax Creek	25	8N	3E	7,300	12J5P	U	Emery Canyon #2	21	1S	3W	7,000	
12H11P	U	Clarkson Mountain	25	14N	3W	6,300	12J3P	U	Middle Creek	8	4S	3W	7,000	
11G12	U	Doe River Ranger Station	5	15S	41E	7,400	11J44	U	Mill Creek	25	1S	2E	6,950	
11G14a	U	Dry Creek Flat	30	13S	37E	7,900	12J1P	U	Mill D South Fork	18	2S	3E	7,400	
12G4	U	Dry Creek Flat	31	13S	37E	6,350	12J10	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900	
11G6	U	Emigrant Summit	21	12S	42E	6,350	12J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725	
11G8MPST	U	Franklin Basin	24	16S	41E	8,000	11J42	U	Snow Bird (Gad Valley)	18	3S	9E	9,700	
11H7MP	U	Garden City Summit	1	14N	4E	7,600	12K1PST	U	Vernon Creek	21	10S	5W	7,500	
11H40p	U	Herd Hollow	3	11N	4E	7,200								
11G15a	U	Horseshoe Basin	10	14N	4E	8,000								
11H1MP	U	Killbuck Narrows	31	13S	42E	7,400								
11G13	U	Liberty Springs	7	13S	42E	8,240								
11H26	U	Little Bear (lower)	16	8N	1E	6,000								
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550								
11G5	U	Oxford Mountain	32	13S	37E	6,800								
11H27	U	Slug Creek Divide	15	10S	44E	7,225								
11H28	U	Slip Creek #1	7	14N	3E	8,500								
11G9	U	Shawberry Creek	9	13S	41E	5,800								
11G10	U	Shawberry Mink Divide	14	13S	41E	6,800								
11H38PST	U	Tony Grove Lake	5	13N	3E	8,400								
11H39P	U	Tony Grove Ranger Station	11	13N	3E	6,250								
11H3MP	U	Willow Flat	2	15S	41E	6,100								
11G4P	U	Willow Flat	1											
RAFT RIVER														
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050	11K12P	U	Beaver Creek	9	17S	3W	7,760	
13H4FS	U	George Peak	4	13N	14W	9,000	11K39PST	U	Pickle Keg Springs	4	21S	3E	9,000	
13H1	U	One Mile Summit	17	14N	14W	7,330	12L15P	U	Pine Creek	24	22S	4W	8,700	
13H3a	U	ViPont	17	14N	17W	7,670	12L18	U	Rees's Flat	20	15S	2E	7,300	
OGDEN RIVER														
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420	12L11P	U	Shingle Mill	5	22S	5W	6,200	
11H49	U	Powder Mountain Hiway	6	7N	2E	8,250	11K35	U	Thistle Flat	19	18S	3E	8,760	
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400								
11H3P	U	Sagebrush Flat	21	7N	3E	8,300								
WEBER RIVER														
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500	12M16	U	Birch Crossing	23	35S	9W	8,100	
11J25	U	Chalk Creek #1	29	4N	8E	9,100	12M14	U	Brian Head	10	36S	9W	10,000	
11J26PST	U	Chalk Creek #2	7	2N	8E	9,200	12M15P	U	Tail Poles	26	35S	9W	8,800	
11J27	U	East Shingle Lake	6	2S	8E	9,750	12M11P	U	Yankee Reservoir	26	35S	8W	8,700	
11J12P	U	Farmington Canyon (lower)	15	3N	1E	6,950								
11J11PST	U	Farmington Canyon (upper)	23	3N	1E	8,000								
11H44p	U	Francis Canyon	29	5N	6E	7,400								
11J37p	U	Hardscabble	22	2N	2E	6,700								
11H21PST	U	Horse Ridge	25	7N	4E	9,260								
11H3	U	Killam Creek	20	6N	5E	7,300								
11H33	U	Park City Summit	30	25	4E	9,300								
11J43	U	Parley's Canyon Summit	5	1S	3E	7,500								
11J15PST	U	Pine Canyon	6	5N	4E	8,000								
11H50	U	Porcupine	22	3N	7E	8,100								
11J38p	U	Redden Mine (lower)	1	2S	6E	8,500								
11J6	U	Redden Mine (upper)	9	1N	6E	9,000								
11J39pa	U	Sageant Lakes	25	1N	6E	8,300								
11J36p	U	Shingle Mill Flat	25	1N	7E	8,600								
11J45PST	U	Smith & Warehous	25	1N	7E	7,600								
PROVO RIVER & UTAH LAKE														
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,280	9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500	
11J20	U	Camp Almont	29	4S	3E	7,300	10J21P	U	Blackfoot R.S.	33	2N	12E	9,300	
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200	10J22P	U	Blackfoot R.S.	33	2N	12E	9,300	
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	9,200	10J23a	U	Blackfoot R.S.	33	2N	12E	9,300	
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600	9J14P	U	Burnt Pasture	4	1N	20E	7,900	
11J7P	U	Durham R.S.	27	3S	3E	7,560	9J13P	U	Grizzly Ridge	8	1S	22E	8,500	
11J22P	U	Hobbs Creek Summit	27	7S	5E	7,420	10J24P	U	Henny's Fork	29	2N	14E	10,000	
11J36P	U	Keoke Canyon	36	10S	6E	8,500	10J4P	U	Hewitso G.S.	33	3N	13E	9,500	
11K1P	U	Rock Bridge	103	10S	6E	8,500	9J8P	U	Hickerton Park	13	2N	12E	7,100	
11K2	U	Rock Bridge	14	10S	2E	6,750	10J15p	U	Highline Fire-Rock	13	2N	15E	9,150	
UPPER GREEN RIVER IN UTAH (above Duchesne River)														
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500	11M3PST	U	Widhoie-Escalante #3	22	34S	1W	9,500	
10J21P	U	Blackfoot R.S.	33	2N	12E	9,300								
10J22P	U	Blackfoot R.S.	33	2N	12E	9,300								
10J23a	U	Blackfoot R.S.	33	2N	12E	9,300								
9J14P	U	Burnt Pasture	4	1N	20E	7,900								
9J13P	U	Grizzly Ridge	8	1S	22E	8,500								
10J24P	U	Henny's Fork	29	2N	14E	10,000								
10J4P	U	Hewitso G.S.	33	3N	13E	9,500								
9J8P	U	Hickerton Park	13	2N	12E	7,100								
10J15p	U	Highline Fire-Rock	13	2N	15E	9,150								
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150								
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300								

NO	STATE	NAME	SEC	TWP	RGE.	ELEV.	NO.	STATE	NAME	SEC	TWP	RGE.	ELEV.	(continued)
UPPER GREEN RIVER IN UTAH (above Duchesne River)														
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,720	10J37P	U	Middle Beaver Creek	31	3N	16E	8,680	
10J37P	U	Middle Beaver Creek	31	3N	16E	8,680	9J10aP	U	Reynolds Park	9	1S	18E	10,400	
9J10aP	U	Reynolds Park	9	1S	18E	10,400	9J7P	U	Spirit Lake	10	1N	17E	10,300	
10J20PST	U	Steel Creek Park	17	2N	13E	10,100	10J16PST	U	Trout Creek	9	1S	20E	9,400	
9J16PST	U	Trout Creek	9	1S	20E	9,400	9J12ap	U	Windy Park	2	1S	20E	9,400	
9J12ap	U	Windy Park	2	1S	20E	9,400								
DUCHESNE RIVER														
10J41ap	U	Atwood Lake	13	4N	4W	10,840								
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,600								
9J9aP	U	Chepeta-Whiterocks Lakes	3	4N	1W	10,350								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								
11J32MPST	U	Current Creek	26	1S	11W	8,000								

COLORADO RIVER DRAINAGE

LEGEND  
Numbering System (examples)  
10J7p Snow Course Only  
10J7a Snow Course and Precipitation Gage  
10J7m Snow Course and Soil Moisture Station  
10J7a Snow Course and Aerial Marker  
10J7a Snow Course, Soil Moisture Station, and Aerial Marker  
10J7a Snow Course, Soil Moisture Station, and Aerial Marker  
10J7a Aerial Marker Only  
10J7a Snow Course, Precipitation Gage Only  
10J7a Snow Course, Precipitation Gage, Snow Pillow and Temperature, Snow Data Site.

# **Agencies Cooperating in Utah Snow Surveys**

## **U. S. GOVERNMENT AGENCIES**

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service

## **STATE AGENCIES**

- Utah State University
- Utah State Department of Natural Resources
  - Division of Wildlife Resources
  - Division of Water Resources
  - Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

## **MUNICIPALITIES**

- Manti
- Salt Lake City

## **ORGANIZED PUBLIC AGENCIES**

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District



UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
FEDERAL BLDG., - ROOM 401C  
125 SOUTH STATE ST.  
SALT LAKE CITY, UTAH 84138

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

FIRST - CLASS MAIL  
POSTAGE AND FEES PAID  
USDA - SCS  
SALT LAKE CITY, UTAH  
PERMIT NO. G-267

FIRST CLASS MAIL

USDA

OFFICE OF THE DIRECTOR

SOIL CONSERVATION SERVICE

125 SOUTH STATE STREET

SALT LAKE CITY, UTAH 84138

## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*

REDSKINS #1!